

IMA

CORRECTIVE ACTION PLAN

PART B ADDENDUM #1





Former Pumphouse #2 Facility ID #9-025086 Former Building 8065 Hunter Army Airfield, Georgia

Prepared for



U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT

Contract No. W912HN-07-D-0012 Delivery Order 0007

January 2009





08-121(E)/011409

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CORRECTIVE ACTION PLAN PART B ADDENDUM #1 FOR FORMER PUMPHOUSE #2 FACILITY ID #9-025086 FORMER BUILDING 8065 HUNTER ARMY AIRFIELD, GEORGIA

Prepared for

U. S. Army Corps of Engineers, Savannah District and Fort Stewart Directorate of Public Works under Contract Number W912HN-07-D-0012 Delivery Order 0007

Prepared by

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and

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January 2009

FINAL

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CONTENTS

ACRONYMS

ACL ATL BGS	alternate concentration limit alternate threshold level
	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAP	Corrective Action Plan
EPA	U. S. Environmental Protection Agency
HAAF	Hunter Army Airfield
IDW	investigation-derived waste
IWQS	In-Stream Water Quality Standard
MTBE	methyl tert butyl ether
ORC	Oxygen-Release Compound®
PID	photoionization detector
ppm	parts per million
SES	SpecPro Environmental Services, LLC
SPH	Six-Phase Heating [™]
STL	soil threshold level
UST	underground storage tank
VOC	volatile organic compound

CORRECTIVE ACTION PLAN PART B

Facility Na	me: Former Pumphouse #2	Former Building 8065, near Street Address: Taxiway 3				
·	Hunter Army					
Facility ID:	9-025086 City: Airfield	County: _C	Chatham Zip Code: 31409			
Latitude:	<u>32° 00' 50"</u> Longitude: <u>81° 08</u>	8′ 16″				
Submitted b	y UST_Owner/Operator:	Prepared by	Consultant/Contractor:			
Name:	Tressa Rutland/Environmental Branch	Name:	Patricia A. Stoll			
Company:	U.S. Army/HQ 3d, Inf. Div. (Mech)	Company:	SAIC			
Address:	DPW ENRD ENV. Br. (Fry)	Address:	P.O. Box 2501			
	1550 Frank Cochran Drive, Bldg. 1137					
City:	Fort Stewart State: GA	City:	Oak Ridge State: TN			
Zip Code:	31314-4927	Zip Code:	37831			
Telephone:	(912) 767-2010	Telephone:	(865) 481-8792			

I. PLAN CERTIFICATION

UST Owner/Operator Α.

Telephone: (912) 767-2010

.

I hereby certify that the information contained in this plan and in all the attachments is true, accurate, and complete, and the plan satisfies all criteria and requirements of Rule 391-3-15-.09 of the Georgia Rules for Underground Storage Tank Management.

Tressa Rutland Name:

Signature:

Date:

B. **Professional Engineer or Professional Geologist**

Name:	Patricia Stoll
Signature:	Pate: a. Still
Date:	1/14/09



Check all boxes below that apply. Attach supporting documentation, i.e., narrative, figures, tables, maps, boring/well logs, etc., for all items checked. Supporting documentation should be three-hole punched and prepared in conformity with the guidance document "Underground Storage Tank (UST) Release: Corrective Action Plan – Part B (CAP-B) Content", GUST-7B.

II. SITE INVESTIGATION REPORT

- Not Applicable: <u>The extent of contamination and the local and site hydrogeology</u> requirements have been fulfilled under the Corrective Action Plan (CAP)–Part B and subsequent Semiannual Progress Reports; therefore, additional site investigation reporting is not necessary.
- Extent of Contamination:
- Local and Site Hydrogeology

III. REMEDIAL ACTION PLAN

A. Corrective Action Completed or In-Progress

- Not Applicable
- Remediation/Treatment of Contaminated Backfill Material & Native Soils
- Other (specify): <u>Six-Phase HeatingTM conducted in 2002 for groundwater treatment and free</u> product removal followed by semiannual monitoring only program.

B. Objective of Corrective Action

- No Further Action
- Remediate Soil Contamination That Exceeds Alternate Threshold Levels (ATLs)
- Provide Risk Based Corrective Action and remediate soil and/or Groundwater Contamination That Exceedes Alternate Concentration Limits (ACLs) and Monitor Residual Contaminants

C. Design Operation of Corrective Action Systems

Not Applicable: <u>Corrective action for soil remediation in 2008 consisted of excavation of contaminated soil exceeding ATLs.</u>

D. Implementation (MUST INCLUDE THE FOLLOWING)

NOTE: If No Further Action is proposed and none of the following apply, a brief explanation must be provided with the signed Certificate of Completion.

- Milestone schedule for proposed site activities
- Monitoring/sampling and reporting plan for measuring interim progress and project completion

> Plan to decommission equipment/wells and close site

IV. PUBLIC NOTICE

- Not Applicable: <u>The corrective action objectives submitted and approved under CAP–Part</u><u>B have not changed.</u>
- Certified Letters to Adjacent, and Potentially Affected Property Owners and Local Officials
- Legal Notice in Newspaper, as approved by EPD
- Other EPD-approved Method (specify)

V. CLAIM FOR REIMBURSEMENT (For GUST Trust Fund sites only)

- GUST Trust Fund Application (attach if applicable)
- Cost Proposal
 - A Total of All Costs Incurred To Date (MUST INCLUDE THE FOLLOWING):
 - > Invoices and proofs-of payment for all costs incurred to date
 - Invoices itemized on the GUST-4D
 - > All non-eligible costs clearly identified as such
 - Incurred costs itemized per GUST-92 form or EPD provided form/specifications
 - A Total of Estimated Costs to Complete Corrective Action
 - Estimated costs itemized per GUST-92 form or EPD provided form/specifications
 - Total Project Costs
- Proposed Schedule For Reimbursement
 - Lump Sum Payment Upon Completion Of Corrective Action **OR**
 - Interim Payments With Final Payment Upon Completion **OR**
 - EPD Established Payment Schedule
- Not Applicable

1.0 INTRODUCTION

Former Pumphouse #2, Facility ID #9-025086 was located near former Building 8065 at Hunter Army Airfield (HAAF), Georgia (Figure 1). The site lies along the east-west taxiway of HAAF. Former Pumphouse #2 was an aviation-gas fuel island that was used from about 1953 until the early 1970s and consisted of ten 25,000-gal underground storage tanks (USTs). The pumphouse was inactive from the 1970s to 1995. In 1995, eight of the 25,000-gal USTs were removed by Anderson Columbia Environmental, Inc. Two 25,000-gal tanks remained in place, partially under the pumphouse structure. In 1998, Earth Tech, Inc. removed the remaining two USTs and the pumphouse structure.

During the Corrective Action Plan (CAP)-Part B investigation, petroleum contaminants identified in soil and groundwater at the former Pumphouse #2 site included benzene, toluene, ethylbenzene, and xylenes (BTEX), as well as polynuclear aromatic hydrocarbon constituents. The groundwater is migrating toward the drainage ditch located to the east and south of the site; however, the dissolved plume did not migrate beyond the drainage ditch to the south and east. In groundwater, benzene was the only contaminant to exceed its In-Stream Water Quality Standard (IWQS) of 71 µg/L and alternate concentration limit (ACL) of 469 µg/L during the CAP-Parts A and B investigations (M&E 1997; SAIC 2000). In soil, benzene, ethylbenzene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd) pyrene concentrations exceeded the applicable Georgia UST soil threshold levels (STLs) in the vicinity of the former tank pits during the CAP-Part B investigation. Benzene and indeno(1,2,3-cd)pyrene were the only constituents in soil to exceed their alternate threshold levels (ATLs) of 0.44 and 0.66 mg/kg, respectively. The CAP-Part B Report recommended that Six-Phase Heating[™] (SPH) be implemented in the area of the dissolved plume exceeding ACLs and the area with free product present. The objectives of the remedial action were to remove the free product, reduce the benzene concentrations in groundwater to below the proposed ACL, and reduce the benzene and indeno(1,2,3-cd) pyrene concentrations in soil to below the proposed ATLs. The Georgia Environmental Protection Division approved the CAP-Part B Report in correspondence dated September 28, 2000 (Wallace 2000). Operation of the remediation was implemented in 2002 for 4 months and then semiannual monitoring was continued at the site.

In 2006, a supplemental subsurface investigation was conducted to delineate the extent of soil contamination in the area of the former tank pits that was not treated under the SPH remediation system. The results were presented in the Eighth Semiannual Progress Report (SAIC 2007a). The supplemental sampling indicated that subsurface soil concentrations were above the STL and ATL for benzene and the STL for ethylbenzene, and groundwater concentrations were above the benzene IWQS and ACL.

This CAP–Part B Addendum #1 documents the results of the soil excavation that was conducted in 2008.

2.0 FIELD ACTIVITIES

SpecPro Environmental Services, LLC (SES) performed excavation-related field activities at the former Pumphouse #2 site from April 17 through June 10, 2008. The tasks performed included

- well abandonment;
- excavation of contaminated soil exceeding ATLs, which was estimated to be an area of approximately 3,334 ft² as denoted in the Ninth Semiannual Progress Report (SAIC 2007b);

- placing Oxygen-Release Compound® (ORC) in the excavation and backfilling the excavation;
- replacement well installation; and
- investigation-derived waste (IDW) disposal.

Photographs taken during the field activities are provided in Appendix III.

2.1 WELL ABANDONMENT

On April 17, 2008, three monitoring wells (P2-MW-44, P2-MW-45, and P2-MW-46) located within the proposed excavation area were abandoned (Figure 2). The wells were deeper than the proposed excavation depth and were abandoned by overdrilling the wells, removing the well materials, and pumping a cement/bentonite grout mixture from the bottom of the boring to ground surface. The well abandonment logs are provided in Appendix VI.

2.2 EXCAVATION, OXYGEN-RELEASE COMPOUND® PLACEMENT, AND BACKFILLING

A geotechnical sample was collected from the borrow soil for classification and moisture density on April 17, 2008. The results are presented in Appendix V.

On April 22, 2008, excavation activities were initiated. The excavation boundary was marked on the ground to match as closely as possible the 3,334 ft² area identified in the Ninth Semiannual Progress Report (SAIC 2007b) and the approved work plan. Excavated soil with volatile organic compound (VOC) readings [using a photoionization detector (PID)] of 1,500 parts per million (ppm) or greater was considered "contaminated" and soil with VOC readings of less than 1,500 ppm was considered "clean." Clean soil was placed on plastic sheeting near the excavation, and contaminated soil was loaded directly into plastic-lined construction roll-off containers for staging and off-site disposal. Construction debris (e.g., concrete, metal, piping, wood, and other deleterious materials) removed from the excavation was piled near the excavation on plastic sheeting and then transported off-site to a construction debris landfill for disposal.

Excavation began using a trackhoe to remove the soil, which was a non-consolidated brownish-tan soil with zones of gray and black sandy soil with concrete and metal piping debris throughout. The excavation encountered very moist/saturated soil at approximately 11.5 ft below ground surface (BGS) on the west side of the pit. VOC readings with the PID ranged from 0 ppm (background) to 1,644 ppm. Soil with higher VOC readings was considered contaminated and loaded directly into roll-off containers. The excavation encountered concrete slabs at 13 ft BGS that were massive and 2 to 3 ft thick. The equipment on-site in April 2008 was not capable of breaking or moving the concrete; however, excavation activities were continued to remove the soil overlying and exposing the concrete.

It was postulated that the concrete was the concrete slab(s) left in place from the USTs removed from the site in the 1990s. SES mobilized a trackhoe with a breaker attachment to break and size the concrete into manageable pieces. In addition, two 20,000-gal storage tanks were mobilized to the site to contain the groundwater entering the excavation. SES began removing the groundwater and concrete from the excavation, and the soil removed was continually monitored with the PID and segregated accordingly. The soil underlying the concrete was a lighter-colored grayish sandy soil, which was interpreted to be native material. Excavation activities were terminated at 16 ft BGS.

The excavation was centered around the west tank pit and the area where former Building 8065 was located and covered an area that was approximately 70 ft \times 95 ft (Figure 2). The area at the top of the excavation was approximately 5,785 ft² and the area of the base of the excavation was approximately 3,884 ft². A total of 690 yd³ of contaminated soil and debris was removed from the excavation for off-site disposal.

2.3 CONFIRMATORY SOIL SAMPLING

Once the excavation activities were complete, a total of five confirmatory soil samples were collected from the excavation. On May 6, 2008, one soil sample was collected from the bottom of the excavation and one soil sample was collected from each of the sidewalls at the bottom of the excavation. The samples were analyzed for BTEX/methyl tert butyl ether (MTBE) using U. S. Environmental Protection Agency (EPA) Method 5035/8260B or 5030B/8260B. The analytical data are presented in Table 1 and Figure 3. Laboratory analytical results from the sampling event are summarized below and provided in Appendix VI.

- Benzene was detected in one of five soil samples at a concentration of 0.0092 mg/kg. Two of the samples contained elevated detection limits that were greater than 0.023 mg/kg. None of the concentrations or elevated detection limits exceeded the ATL of 0.44 mg/kg.
- Toluene was not detected in any of the five soil samples. Two of the samples contained elevated detection limits that were greater than 0.042 mg/kg. None of the elevated detection limits exceeded the ATL of 2,050 mg/kg.
- Ethylbenzene was detected in five of five soil samples at concentrations ranging from 0.0022J to 0.62 mg/kg. None of the concentrations exceeded the ATL of 389 mg/kg.
- Total xylenes were detected in three of five soil samples at concentrations ranging from 0.070J to 0.75 mg/kg. None of the concentrations exceeded the ATL of 700 mg/kg.
- MTBE was not detected in any of the five soil samples. Two of the samples contained elevated detection limits that were greater than 0.016 mg/kg. There is no STL or ATL for MTBE.

None of the BTEX/MTBE constituents exceeded their respective ATL at the bottom of the excavation or the side walls.

2.4 OXYGEN-RELEASE COMPOUND® PLACEMENT AND BACKFILL

When the extent of the excavation had been reached and the soil samples obtained, ORC was applied to the excavation bottom and sidewalls in accordance with the manufacturer's recommendations and the approved work plan. A total of 640 lb of ORC was applied. Immediately after the ORC had been applied, the "clean" soil staged nearby was placed back into the excavation using the trackhoe to spread and compact the soil. The soil was spread and compacted with the trackhoe until the depth of the backfill reached approximately 10 ft BGS and all the "clean" soil had been placed back into the excavation. Soil was then brought from a nearby borrow pit from off-post. This material was dumped into the excavation and spread with the trackhoe until the backfill reached to 4 ft BGS. The backfill from 4 ft BGS to ground surface was spread in 6-in. lifts and compacted with a smooth-drum roller. Compaction was measured in this top 4 ft by Whitaker Laboratory, Inc., Savannah, Georgia, and the compaction was determined to be

acceptable. Once the finished grade was achieved, the surface was seeded, fertilized, and mulched to provide a ground cover of grasses to blend with the surrounding topography.

2.5 WELL INSTALLATION

On June 1, 2008, SES installed three 2-in. polyvinyl chloride monitoring wells to replace the wells that were abandoned prior to the soil excavation. The locations of replacement wells P2-MW-44R, P2-MW-45R, and P2-MW-46R are shown on Figure 3. Boring logs and well construction diagrams are provided in Appendix VII, and well construction details and survey data are provided in Table 2.

2.6 INVESTIGATION-DERIVED WASTE DISPOSAL

The contaminated soil was characterized and determined to be non-hazardous. The soil IDW was manifested and transported by Atlantic Waste Services and disposed of at the Superior Landfill in Savannah, Georgia. Concrete and other construction/demolition material was transported without manifest by Atlantic Waste Services and disposed of at Sand Dollar Recycling in Savannah, Georgia. The water IDW was manifested and transported by Moran Environmental Recovery and disposed by Water Recovery, Inc. in Jacksonville, Florida. The waste manifests are provided in Appendix VIII.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Approximately 690 yd³ of contaminated soil was removed during the excavation activities in 2008. Confirmatory soil sampling following the excavation activities indicated that BTEX-contaminated soil in excess of the applicable ATL was removed from the tank pit area and disposed of off-site. The site ranking score based on the confirmatory soil sampling results and most recent groundwater data is 2,800 (Appendix IX).

It is recommended that semiannual sampling be continued until the groundwater contaminant concentrations are below the applicable ACLs. The monitoring only program should consist of sampling wells P2-MW-4, P2-MW-44R, P2-MW-45R, P2-MW-46R, P2-MW-47, P2-MW-48, TMP-1, TMP-2, TMP-4R, TMP-6, TMP-7, TMP-9R, and TMP-11 for BTEX using EPA Method 8021B/8260B. A no further action status will be recommended when the benzene groundwater concentrations are below the ACL.

4.0 **REFERENCES**

- M&E (Metcalf & Eddy) 1997. Final Corrective Action Plan–Part A Report for Facility ID: 9-025086, Phase I Site Investigation at Pumphouse #2, Hunter Army Airfield, Savannah, Georgia, April.
- SAIC (Science Applications International Corporation) 2000. Corrective Action Plan–Part B, Former Pumphouse #2, Facility ID #9-025086, Former Building 8065, Hunter Army Airfield, Georgia, May.
- SAIC 2007a. Eighth Semiannual Progress Report, Former Pumphouse #2, Facility ID #9-025086, Former Building 8065, Hunter Army Airfield, Georgia, June.

- SAIC 2007b. Ninth Semiannual Progress Report, Former Pumphouse #2, Facility ID #9-025086, Former Building 8065, Hunter Army Airfield, Georgia, December.
- Wallace, Ronald J. 2000. Letter to Tressa Rutland (Fort Stewart Directorate of Public Works, Environmental Branch), notice to implement CAP–Part B, September 28.

APPENDIX I

FIGURES

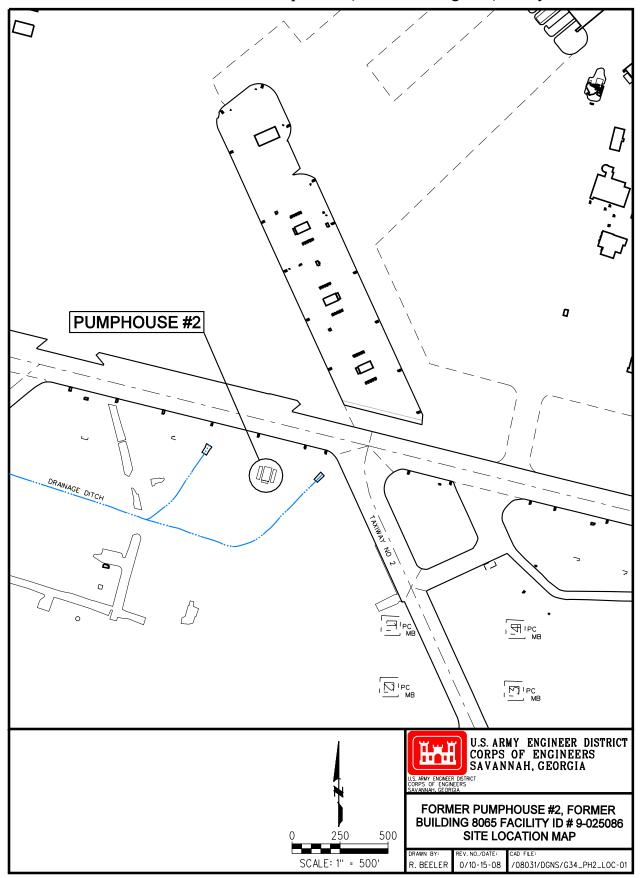


Figure 1. Site Location Map for the Former Pumphouse #2 Site, Hunter Army Airfield, Georgia

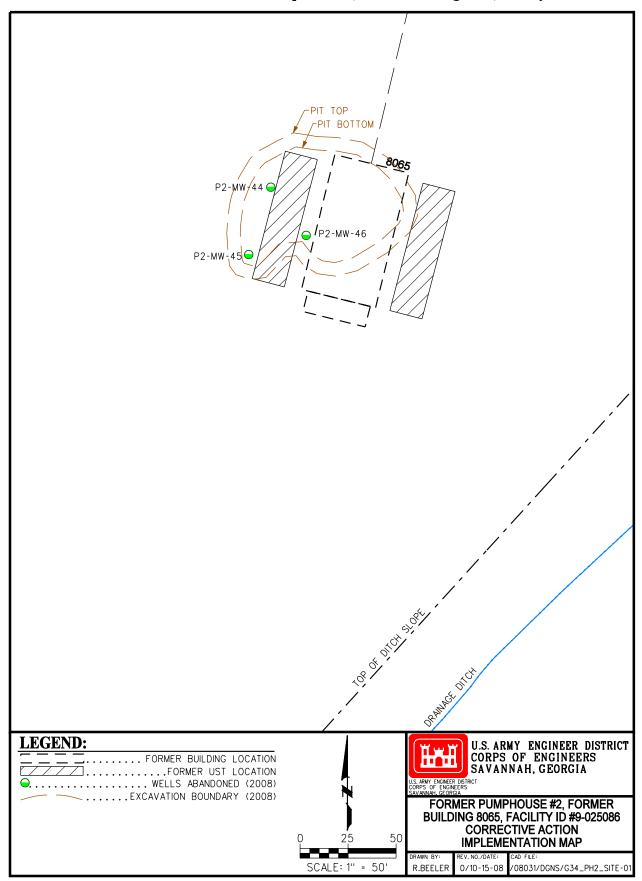


Figure 2. Corrective Action Implementation Map for the Former Pumphouse #2 Site

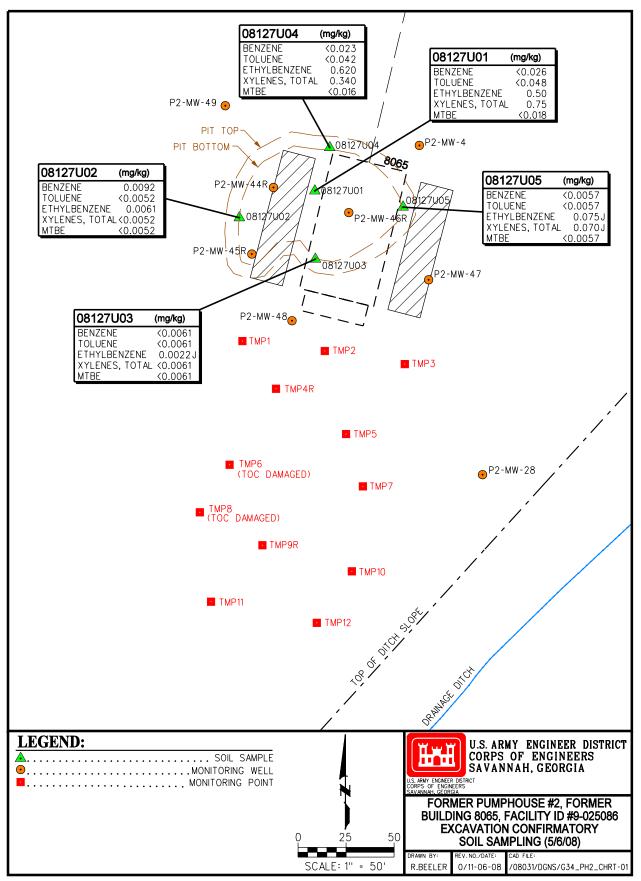


Figure 3. Excavation Confirmatory Soil Sampling Map for the Former Pumphouse #2 Site

APPENDIX II

TABLES

Sample ID	Sample Location (ft BGS)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	MTBE (mg/kg)
08127U01	Bottom	05/06/08	0.026 U	0.048 U	0.500	0.750	1.25	0.018 U
08127U02	Side wall - West	05/06/08	0.0092	0.0052 U	0.0061	0.0052 U	0.0153	0.0052 U
08127U03	Side wall - South	05/06/08	0.0061 U	0.0061 U	0.0022 J	0.0061 U	0.0022	0.0061 U
08127U04	Side wall - North	05/06/08	0.023 U	0.042 U	0.620	0.340	0.96	0.016 U
08127U05	Side wall – East	05/06/08	0.0057 U	0.0057 U	0.075 J	0.070 J	0.145	0.0057 U
	oil Threshold Level Column 1; effective	-	0.017	115	18	700		
	ernate Threshold Lev pproved CAP-Part I		0.44	2,050	389	700		—

Table 1. Soil Analytical Results

NOTES:

Bold values exceed soil threshold levels.

BGS Below ground surface.

BTEX Benzene, toluene, ethylbenzene, and xylenes.

CAP Corrective Action Plan.

MTBE Methyl-tert butyl ether.

Data Qualifiers:

J Indicates that the value for the compound is an estimated value.

U Indicates that the compound was not detected above the reported sample quantitation limit.

Table 2. Well Construction Details

		Boring	Screened		Coordinates (NAD83) ^{<i>a</i>}		Elevation (NGVD29) ^{<i>a</i>}	
Boring/Well Number	Date Installed	Depth (ft BGS)	Interval (ft BGS)	Type of Completion	Northing	Easting	Ground Surface	Top of Casing
TMP-01	12/03/01	16.5	3.0 - 16.0	TMP/Piezometer	733963.93	975043.09	39.31	40.88
TMP-22	12/03/01	16.5	3.0 - 16.0	TMP/Piezometer	733958.80	975086.04	39.87	41.69
TMP-03	12/03/01	16.5	3.0 - 16.0	TMP/Piezometer	733951.90	975127.67	39.53	41.45
TMP-04R	06/22/04	15.0	4.8 - 14.8	2-in. PVC	733939.07	975060.59	39.40	39.19
TMP-05	12/03/01	16.5	3.0 - 16.0	TMP/Piezometer	733915.51	975097.08	39.58	42.03
TMP-06	12/03/01	16.5	3.0 - 16.0	TMP/Piezometer	733874.71	975020.91	39.33	39.84
TMP-07	12/02/01	16.5	3.0 - 16.0	TMP/Piezometer	733888.21	975105.82	39.53	42.10
TMP-09R	06/22/04	15.0	4.4 - 14.0	2-in. PVC	733857.57	975053.49	38.72	38.72
TMP-10	12/02/01	16.5	3.0 - 16.0	TMP/Piezometer	733843.99	975100.10	39.37	41.24
TMP-11	12/02/01	16.5	3.0 - 16.0	TMP/Piezometer	733828.12	975026.75	38.47	40.56
TMP-12	12/01/01	16.5	3.0 - 16.0	TMP/Piezometer	733817.13	975081.81	39.59	41.54
P2-MW-4	11/19/96	17.0	6.0 - 16.0	2-in. PVC	734065.85	975135.27	39.05	38.79
P2-MW-28	05/9/97	18.5	8.0 - 18.0	2-in. PVC	733894.37	975168.17	40.07	39.97
P2-MW-44R	06/01/08	20.0	9.0 - 19.0	2-in. PVC	734043.98	975059.24	38.75	38.52
P2-MW-45R	06/01/08	19.0	8.0 - 18.0	2-in. PVC	734009.27	975047.98	38.92	38.61
P2-MW-46R	06/02/08	20.0	9.0 - 19.0	2-in. PVC	734030.82	975098.49	38.83	38.57
P2-MW-47	04/18/07	16.5	5.9 – 15.9	2-in. PVC	733995.87	975140.13	39.25	38.96
P2-MW-48	04/18/07	17.0	6.25 - 16.0	2-in. PVC	733974.50	975068.91	39.12	38.92
P2-MW-49	04/18/07	20.0	6.75 – 16.5	2-in. PVC	734086.55	975034.17	38.64	38.33

NOTES:

^a Wells were resurveyed in August 2008.

BGS Below ground surface.

NAD North American Datum.

NGVD National Geodetic Vertical Datum

PVC Polyvinyl chloride.

TMP Temporary monitoring point.

APPENDIX III

PHOTOGRAPHS OF FIELD ACTIVITIES



Site preparation - staking excavation area



Abandoned monitoring well



Beginning stages of the excavation



Staging clean soil



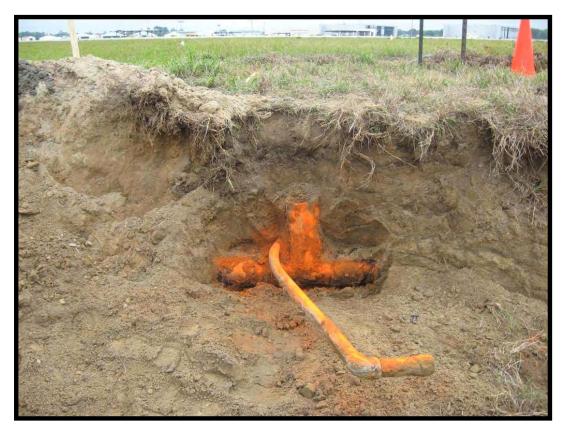
Clean soil, staged/covered



Soil screening



Excavation – groundwater encountered



Typical construction debris found during excavation



Construction debris staged on plastic



Concrete encountered in excavation



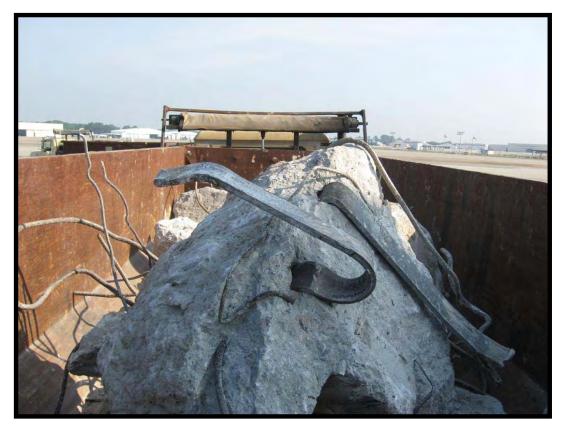
Breaking concrete into manageable pieces



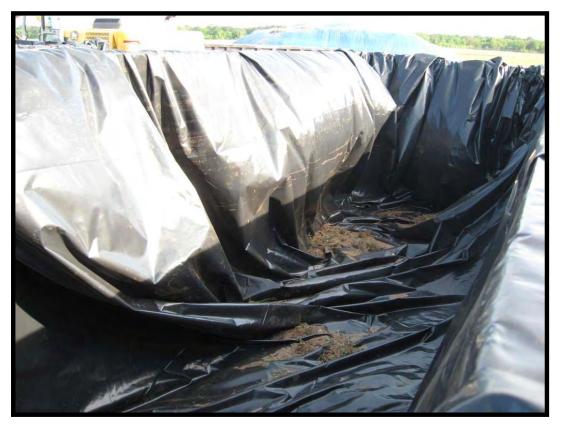
Removing concrete



Concrete staged



Concrete loaded in roll-off container



Plastic-lined roll-off for contaminated soils



Staging roll-offs pending analysis III-10



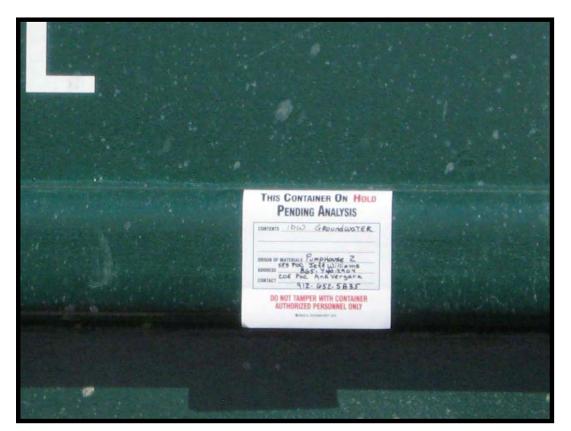
Roll-off staging area



Cleaning tarmac



Dewatering the excavation into a Baker Tank



Investigative Derived Waste – Groundwater



Soil sampling



ORC® application to the excavation



Backfilling excavation



Placing and compacting of backfill



Placing clean soil backfill



Placing backfill from borrow source



Measuring compaction



Continued backfilling and compacting



Seeding/fertilizing disturbance



Watering III-17



Site restored

APPENDIX IV

WELL ABANDONMENT LOGS

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BOART LONGYEAR

WELL/BORING ABANDONMENT FORM

CLIENT: <u>SE5</u>							
LOCATION: Hunchel AAF							
JOB NO.: <u>3436-0067</u>							
WELL/BORING NO .: MW -44							
CHIEF: Manthaly							
REASON FOR ABANDONMENT:							
DATE OF ABANDONMENT: 4-17	-08						
Construction Type: Drilled / Driven	Other						
Formation Type: Unconsolidated	Bedrock						
Sealing Method: Gravity Pump							
Sealing Materials: Bentonite Chips	Cement-Bent Other						
SEALING MATERIAL FROM (FT.)	TO (FT.) # BAGS OR VOLUME						
Concert-bret. 16	Ø 20gal						
WELL INFORMATION ONLY	,						
Total Well Depth:	Screen Removed? <u>NO</u>						
Casing Dlameter:	Overdrilled? معبيه						
Casing Depth:/	Casing Pulled? <u>NO</u>						
Depth to Water:	Cut Below Surface?						
SUPPLIES USED:							
HOLEPLUG GROUT	gal.						
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>						

# **BOART LONGYEAR**

WELL/BORING ABANDONMENT FORM						
CLIENT: 555						
LOCATION: Heurt	er AFF					
JOB NO .: 3436-	006-7					
WELL/BORING NO.:	mw-46	45				
CHIEF: Mauta	124					
REASON FOR ABAND	ONMENT:					
DATE OF ABANDONM	ENT: <u>4-17-</u>	-08				
Construction Type: Dri	lled Driven _	Other				
Formation Type: Unc	onsolidated 🤳	Bedrock				
Sealing Method: Gra	vity Pumpe	d 🗾 Other				
Sealing Materials: Ben	tonite Chips	Cement-Bent. $\bigvee$	Other			
SEALING MATERIAL	FROM (FT.)	TO (FT.)	# BAGS OR VOLUME			
Conont bet	1 Le	Ø	AU cal			
	<u> </u>					
	DNLY					
Total Well Depth:	16	Screen Remo	ved? NO			
Casing Diameter: Overdrilled?						
Casing Depth: 16 Casing Pulled? 10						
Depth to Water: Cut Below Surface?						
SUPPLIES USED:						
HOLEPLUG bags	GROUT	gal.	OTHER			

### **BOART LONGYEAR**

### WELL/BORING ABANDONMENT FORM

CLIENT: SES								
LOCATION: HUMFER	LOCATION: HUMFER AFE							
JOB NO .: 3436-00	107							
WELL/BORING NO .: M	W-45 ~	16						
CHIEF: Shuffing	4							
REASON FOR ABANDON	VIENT:							
DATE OF ABANDONMENT	r: <u>4-17-</u>	08						
Construction Type: Drilled	V Driven	Other						
Formation Type: Uncons	olidated 🗸	Bedrock						
Sealing Method: Gravity	Pumped	Other						
Sealing Materials: Bentoni	te Chips (	Cement-Bent. <u>-</u>	Other					
	FROM (FT.)	TO (FT.)	# BAGS OR VOLUME					
Cenent. bet.	12	- Ø	16 gal					
	Helefildenska and an							
WELL INFORMATION ON	<u>-Y</u>							
Total Well Depth:	<b>\</b>	Screen Remo	ved? <u>NO</u>					
Casing Diameter: 🏾 🎝 ''	Casing Diameter: $2^{\prime}$ Overdrilled? $4^{\prime}$							
Casing Depth:2		Casing Pulled	IT <u>NO</u>					
Depth to Water:	_	Cut Below Su	rface? _yes_					
SUPPLIES USED:								
HOLEPLUG bags	GROUT	yal.	OTHER					

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# **APPENDIX V**

# **GEOTECHNICAL TEST RESULTS**

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r age 1

# Whitaker Laboratory, Inc.

(912) 234-0696

www.whitakerlab.net

P.O. Box 7078 2500 Tremont Road Savannah, Georgia 31418 Fax (912) 233-5061 Email: info@whitakerlab.net

4/21/08-5 Report No.: **Hodges Brothers** Client: Pump House #2 **Project:** 

Attached are the results of the classification and moisture-density tests performed on (1) sample of proposed field submitted by the contractor on 4/17/08.

In general, with proper moisture conditioning, this (SM) soil would be considered suitable within most project specifications. However, please verify there are no restrictions on the percentage of fines before using this material.

We thank you for the opportunity to be of service on this project. We appreciate your trust and look forward to a continuing relationship in the future. If you should have any questions, please do not hesitate to contact our office.

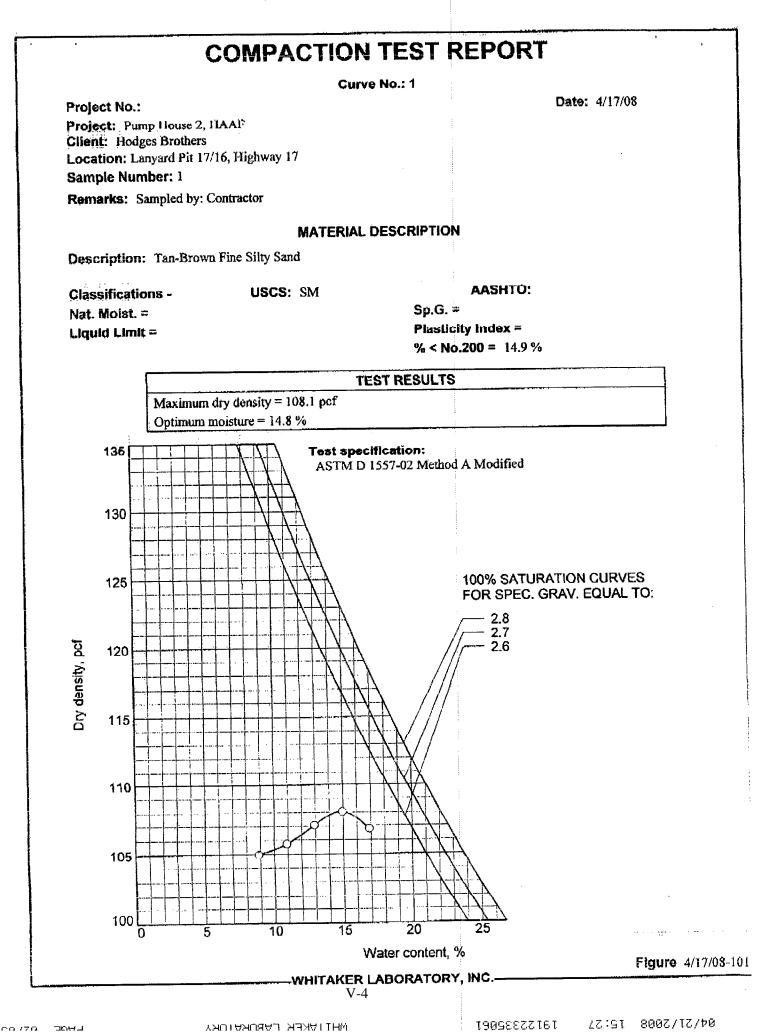
Respectfully submitted.

### WHITAKER LABORATORY, INC.

Joseph F. Whitaker, P.E.

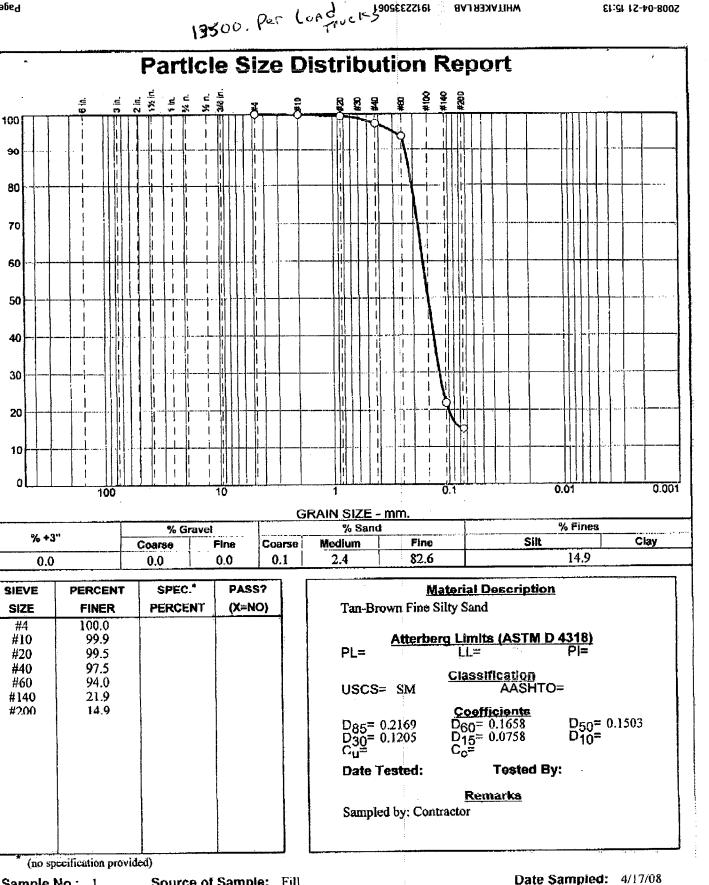
**Hodges Brothers** 1 cc: 1 cc: File

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PERCENT FINER



19098827161 22:51 8002/12/00

# WHITAKER LABORATORY, INC.

2500 Tremont Road - Savannah, GA - 31405 Phone (912) 234-0696 - Fax (912) 233-5061

Report #: 5/12/08-72

Client: Hodges Brothers

**Project:** HAAF, Pumphouse 2, Savannah, GA

Test Methods Used (underline all that apply)

#### ASTM-D-698, <u>ASTM-D-1557</u>, <u>ASTM-D-4959</u>, ASTM-D-2216, ASTM-D-1556, <u>ASTM-D-2922</u>

Test Number	% Moisture	% Optimum Moisture	Wet Density (PCF)	Dry Density (PCF)	Proctor (PCF)	% Compaction	% Required Compaction	Pass or Fail	Depth of Test (inches)	Elevation of Test (ft. **BFSG)
	16.2	14.8	120.3	103.5	108.1	95.8	95.0	Pass	0-6"	4.0
1	Test L	ocation:	Backfill, A	rea East		L				L <u></u>
2	15.5	14.8	121.5	105.2	108.1	97.3	95.0	Pass	0-6"	4.0
4	Test L	ocation:	Backfill, A	irea West						

Remarks: Backfill area on air strip at previous pumphouse station #2. There will be no fiture establishment in this back filled area. Will become grassy area.

Compaction and penetrometer tests reflect only the condition of the materials at the depth and location specified. These tests alone are not a substitute for an engineered geotechnical investigation and report, which can provide information on underlying soil conditions that can adversely affect support of structures and/or pavements.

V-6

cc: Hodges Brothers Attn: Jeff Fax: 912-654-1673

WHITAKER LABORATORY, INC. Joseph F. Whitaker, P.E.

Date of Test(s):

4/30/2008

**Amique Hutchison** 

Test Performed by:

FIELD DENSITY REPORT

# WHITAKER LABORATORY, INC.

2500 Tremont Road - Savannah, GA - 31405 Phone (912) 234-0696 - Fax (912) 233-5061

Report #: 5/12/08-73

Client: **Hodges Brothers** 

Project: HAAF, Pumphouse 2, Savannah, GA

Test Methods Used (underline all that apply)

### ASTM-D-698, ASTM-D-1557, ASTM-D-4959, ASTM-D-2216, ASTM-D-1556, ASTM-D-2922

Test Number	% Moisture	% Optimum Moisture	Wet Density (PCF)	Dry Density (PCF)	Proctor (PCF)	% Compaction	% Required Compaction	Pass or Fail	Depth of Test (inches)	Elevation of Test (ft. **BFSG)
	16.1	14.8	(PCF) 122.4	(PCF) 105.4	(PCF) 108.1	97.5	95.0	Pass	0-6"	0-FSG
1	l	l	Backfill, A	rea East	L	L	L	·	<u></u>	
	15.7	14.8	123.1	106.4	108.1	98.4	95.0	Pass	0-6"	0-FSG
2	Test Lo	ocation:	Backfill, A	rəa West						
							:			
									<del></del>	
										<u> </u>

Remarks:

Compaction and penetrometer tests reflect only the condition of the materials at the depth and location specified. These tests alone are not a substitute for an engineered geotechnical investigation and report, which can provide information on underlying soil conditions that can adversely affect support of structures and/or pavements. -- .

CC: Hodges Brothers 912-654-1673 Attn: Jeff Fax:

WHITAKER LABORATORY, INC. Joseph F. Whitaker, P.E.



Date of Test(s):

FIELD DENSITY REPORT

5/8/2008

**Test Performed by:** 

Amique Hutchison

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# **APPENDIX VI**

# LABORATORY ANALYTICAL RESULTS

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# Validation Report Fort Stewart, Georgia Pumphouse 2 at HAAF

# Prepared by DataChek



May 23, 2008

# **TABLE OF CONTENTS**

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5.	Assignment of Data Qualifiers	
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6.	References	

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Table 5-1 Data Qualifier Definitions	
Table 5-2 Data Validation Reason Codes	

### **ACRONYMS AND ABBREVIATIONS**

%	Percent
%D	percent difference
BTEX	benzene, toluene, ethylbenzene, and xylenes
CB	calibration blank
CCAL	continuing calibration
CCV	continuing calibration verification
COC	chain of custody
DRO	diesel range organic
EPH	extractible petroleum hydrocarbons
ER	equipment rinsate
FD	· ·
GRO	field duplicate
ICAL	gasoline range organic initial calibration
ICL	
	instrument calibration limit
IS	internal standard
J	estimated value
LCS	laboratory control sample
MB	method blank
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
MTBE	methyl tert butyl ether
PAH	polynuclear aromatic hydrocarbon
PARCC	precision, accuracy, representativeness, comparability, completeness
QC	quality control
R	Rejected
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SDG	sample delivery group
SVOC	Semivolatile organic compound
TB	trip blank
TCE	Trichloroethene
TOC	total organic carbon
ТОН	total organic halides
U	not detected
UJ	not detected; associated value is an estimate
VOC	volatile organic compound

#### 1. INTRODUCTION

The data validation of six soil samples analyzed for the BTEX compounds and MTBE. The soil samples were collected from Pumphouse 2 at HAAF, Fort Stewart, GA and the validation of the analytical results was completed in May 2008. Level III data validation was performed on all samples. Empirical Laboratories, Nashville, TN produced all the analytical data

#### 2. PROCEDURES

The sample data were validated following the logic identified in *The CLP National Functional Guidelines* for Organic Data Review (October 1999).

The data validation qualifiers (Table 5-1) applied by the reviewer were recorded in a column adjacent and to the right of the laboratory results. A data validation reason code was also added to each of the reviewer's qualifiers to provide the user with a means to identify which results were qualified and the reason for the qualifiers (Table 5-2).

#### 3. SUMMARY OF DATA VALIDATION FINDINGS

This data validation report reflects the data validation findings for samples associated with The HAAF Pumphouse 2. The validated data set consisted of 6 soil samples validated at Level III. Overall the data was of excellent quality, and all measurements except that for *precision* met the measures required to satisfy the project quality control (QC) objectives (precision, accuracy, representativeness, comparability, and completeness) were met. Each of these measures and specific data qualifications are discussed below.

*Precision*: Precision is a measure of the agreement between duplicate sample measurements of the same quantity and is reflected in the relative percent difference (RPD) between spikes and the RPD for the field duplicate analysis. Precision was measured at 60.0 percent. The low precision is due to the order of magnitude difference between the original and the duplicate samples for ethylbenzene and total xylene. The original sample was analyzed at the low-level concentration range for the standard curve, while the field duplicate was analyzed at the medium-level.

Accuracy: Accuracy is measured by the results from the recovery of known amounts of compounds or elements from laboratory control samples (LCS), matrix spikes (MS), and surrogate recoveries. The overall measure of accuracy for the Pumphouse samples was calculated by comparing the number of

] VI-6 spike recoveries that exceeded the laboratory limits by the total number of LCS, and surrogate recoveries. For the samples accuracy was measured at 100.0 percent.

*Representativeness*: The measures of representativeness – sample handling, analytical blank analysis, field blanks – were met. Designated analytical protocols were followed. Holding times were met for the analysis. Overall, no major problems were identified resulting from analytical failure.

*Comparability*: The samples were analyzed using appropriate approved methods of analysis. All data results were reported correctly and in standard units

*Completeness*: Completeness is the amount of valid data compared to the planned amount and is expressed as a percent of the usable data points divided by the total number of analytes for each parameter analyzed. Out of a total of 30 data points, no data points were rejected, resulting in a completeness of 100 percent.

Data validation summaries, which function as worksheets for the validation task, are included for each parameter in each data package. The following section highlights the key findings of the data validation for each analysis.

#### 4. ANALYSIS-SPECIFIC DATA VALIDATION SUMMARIES

#### 4.1 BTEX/MTBE BY SW846 8260B

Six soil samples were analyzed for the BTEX/MTBE compounds and overall, the data are of good quality and are usable as qualified. Data were reviewed for the following:

*Holding Times/Sample Condition.* The samples were received in acceptable condition and were analyzed within the QC holding time.

Initial and Continuing Calibration. The ICAL and CCAL analyses were within the QC limits.

Blanks. No contamination was noted in the associated method or field blanks.

Surrogate Recoveries. All surrogate recoveries were within the acceptable QC limits.

Matrix Spike/Matrix Spike Duplicates. No MS/MSD sample was analyzed

Laboratory Control Sample. LCS recoveries were within the QC limits.

*Field Duplicates.* The field duplicate RPDs were outside the QC limit for ethylbenzene and total xylenes. The results for those compounds in samples 08127U05 and 08127U05D were qualified as "J".

Quantification. The sample results were acceptable as qualified.

#### 5. DATA QUALIFIER DEFINITIONS

#### 5.1 DATA QUALIFIER DEFINITIONS

Table 5-1 Data Qualifier Definitions						
Qualifier	Definition					
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.					
U	The analyte was analyzed for, but was not detected above the reported sample quantification limit or the reported analyte value was not detected above 5x or 10x the level reported in laboratory or field blanks.					
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.					
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.					

### **Table 5-1 Data Qualifier Definitions**

#### 5.2 DATA VALIDATION REASON CODES

During the review process, a data validation reason code was added to each of the reviewer's qualifiers to allow the user to identify which results were qualified and the reason(s) for the qualifiers. Reason codes are listed and defined in Table 5-2.

cason Code	
01	Sample received outside of 4+/-2 degrees Celsius
01A	Improper sample preservation
02	Holding time exceeded
02A	Extraction
02B	Analysis
03	Instrument performance – outside criteria
03A 03B	BFB DFTPP
03E	DDT and/or Endrin % breakdown exceeds criteria
03D	Retention time windows
03E	Resolution
04	Initial calibration results outside specified criteria
04A	Compound mean RRF QC criteria not met
04B	Individual % RSD criteria not met
04C	Correlation coefficient >0.995
05	Continuing calibration results outside specified criteria
05A	Compound mean RRF QC criteria not met
05B	Compound % D QC criteria not met
06	Result qualified as a result of the 5x/10x blank correction
06A	Method or preparation blank
06B	ICB or CCB
06C	ER
06D	ТВ
06E	FB
07	Surrogate recoveries outside control limits
07A	Sample
07B	Associated method blank or LCS
075	
08A	MS/MSD/Duplicate results outside criteria
	MS and/or MSD recovery not within control limits (accuracy)
08B	% RPD outside acceptance criteria (precision)
09	Post digestion spike outside criteria (GFAA)
10	Internal standards outside specified control limits
10A	Recovery
10B	Retention time
11	Laboratory control sample recoveries outside specified limits
11A	Recovery
11B	% RPD (if run in duplicate)
12	Interference check standard
13	Serial dilution
14	Tentatively identified compounds
15	Quantification
16	Multiple results available; alternate analysis preferred

### **Table 5-2 Data Validation Reason Codes**

17	Field duplicate RPD criteria is exceeded
18	Percent difference between original and second column exceeds QC criteria
19	Professional judgment was used to qualify the data
20	Pesticide clean-up checks
21	Target compound identification
22	Radiological calibration
23	Radiological quantification
24	Reported result and/or lab qualifier revised to reflect validation findings

% = percent %D = percent difference BFB = bromofluorobenzene CCB = continuing calibration blank DFTPP = decafluorotriphenylphosphine ER = equipment rinseate FB = field blank GFAA = graphite furnace atomic absorption ICB = initial calibration blank LCS = laboratory control sample MS = matrix spike MSD = matrix spike duplicate QC = quality control RPD = relative percent difference RRF = relative response factor RSD = relative standard deviation TB = trip blank

#### 6. **REFERENCES**

EPA (U.S. Environmental Protection Agency), October 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA-540/R-99-008).

# EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

# 44200

### SHIP TO: 227 French Landing Drive, Suite 550 + Nashville, TN 37228 + 615-345-1115 + (fax) 615-846-5426

Serel Results to:	Send Invoice to: SAME	,		Analysis Requirements:	Lal	o Use O	
Name DHAWN	Name				VOA Headspace		N (NA) N (NA) NA NA NA
Conspany SES LLC	Company				Field Filtered		K N (NA
Address 1000 Floyd Collerct	Address				Correct Container	rs 🚬 🕻	$\mathcal{O}$ N NA
City OAKRIDGE	City				Discrepancies		( (N) NA
State, Zip. TN 37830 Phone 865-481 7837	State, Zip				Correct Container Discrepancies Cust: Seals Intac Containers Intact	t 👘	Q n na
Phone 105-481-0290	Phone		N				
E-mail DHAWNE Specproent.	Fax		ど		Airbill #:	Fede	X
Project No./Name: E013 8.0007 Pump House Z. & HAAF	Sampler's (Signature):		12		CAR #		경험화장 없는 것이 아이지 않는 책 물건이
Lab Use Only Date/Time	Buald Ponius	Sample	<u> </u>			No.	
Lab # Sampled	Sample Description	Matrix	•		Comments	of Bottles	Lab Use Only Containers/Pres.
0305059-01	TRIPBLANK 5506	WATER	X		LAB PREP	2	2J-HP
57 5-6-08/915	08127001	Soil	X			4	114 3-0
-63 5-6-08 1043	08127402	50:1	X			4	
5-6-08	08127403	Soil	X			4	
$\frac{5}{1000} -04$ 1055 $\frac{5}{1000} -05$ 54.08		Soil	X			4	12
	08127405	5011	X			4	2M-36-0
-07 5-6-18	100101 405 D	<.;;	X			4	114-30
- () 5-6-08	08127 405 D 08127 405 MSMGD	5-11	K			4	
00 1137	08171405 MUNDU	201					
Sample Kit Prep d by: (Signature)	Date/Time Received By: (Si	l ignature)		REMARKS:		-	Details:
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Relinguished by: (Signature)	Date/Time Received By: (Si	ionature)				Page _	
Suald Porus	Date/Time Received By: (Si	<b>3</b>		CALL DOUG HAWN	Upon Receipt	Cooler	Noof
Relinquished by: (Signalure)	Date/Time Received By: (Si	ignature)				Date S	hipped 5/6/08
							By FED EX
Received for Leboration by: (Signature)	Date/Time Temperature	°C				Turnard	ound NORMAL

### EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

44699

SHIP TO: 227 French Landing Drive, Suite 550 + Nashville, TN 37228 + 615-345-1115 + (fax) 615-846-5426

Sest #Reduits to:       Send Invoice to:       SAMPL       Analysis Requirements:       Lab Use Only:         Name	
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Project No./Name: EC138, && 7 Sampler's (Signature) CMPHOUSE Z C MARF Lab Use Only Lab # Date/Time Sample Description Sample Matrix CAR #: Bound Sample Matrix CAR #: Bound Sample Comments Of Lab Use O Comments Of Containers/F Containers/F Containers/F Comments Soft Water X Comments Soft Soft Soft Water X Comments Soft Soft Soft Water X Comments Soft Soft Soft Soft Soft Soft Water X Comments Soft Soft Soft Soft Soft Soft Soft Soft	
Kimphouse Z @ MARF       Suald Knuld       No.       Lab Use Only         Lab Use Only       Date/Time       Sample Description       Sample       Comments       Of Bottles         0805092-01       TRIPBIANK 5451       WATER X       LAB PREP       Z       Z       Z         -62       5-7-08//510       QCR 501       WATER X       Image: Comments       3       Z       X         -03       5-7-05//52       QCR 501       WATER X       Image: Comments       3       Z       X	
Lab Use Only Lab #       Date/Time Sampled       Sample Description       Sample Matrix       Sample Matrix       Comments       No. of Bottles       Lab Use O Containers/F         080509.2 - 01       TRIP BIAAK 5451       WATER X       LAB PREP       Z       25-H8         -02       5-7-08/1510       QCR SO1       WATER X       Image: Containers/F       3       25-H8         -03       5-7-05/1532       QCFR SO1       WATER X       Image: Containers/F       3       25-H8	intering intering
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-02 5-7-05/510 QCRSO1 WATER X 3 355 HS -03 5-7-05/1530 Q-ERSO1 WATER X 3	resi
-02 5-7-05/1510 QCR501 WATER X 3 35-119 -03 5-7-05/1530 Q-ERSOLFSO1 WATER X 3	
-03 PTTO JERS QCFSOI WATER X 3	12amra
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Sample Kit Prepidyby (Signature) Date/Time Received By: (Signature) REMARKS: Details:	
Details: Page of _1	
Relinquished by: (Signature)       Date/Time       Received By: (Signature)       PRCKAGE       Cooler No.       International         B.Mald       Intum       1740       PRCKAGE       Cooler No.       International       International         Relinquished by: (Signature)       Date/Time       Received By: (Signature)       PRCKAGE       Cooler No.       International         Relinquished by: (Signature)       Date/Time       Received By: (Signature)       CAll Doug HAW       Date Shipped Stress         Received for Laboratory by: (Signature)       Date/Time       Temperature       Cooler       Shipped By	<u> </u>
Relinquished by: (Signature) Date/Time Received By: (Signature)	28
Debugging for the Receipt Shipped By Fred E	
Received for Labyret by: (Signature) Date/Time Temperature 5. C C Turnaround Norm	$\frac{2}{2}$

Distribution: Orginal and yellow copies accompany sample shipment to laboratory: Pink retained by samplers.

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FORM 1 VOLATILE ORGANICS ANALYSIS DATA S	CLIENT SAMPLE NO.
	08127001
Lab Name: EMPIRICAL LABS Contract: SES	
Lab Code: NA Case No.: NA SAS No.	: NA SDG No.: HAAF001
Matrix: (soil/water) SOIL	Lab Sample ID: 0805059-02
Sample wt/vol: 5.6 (g/mL) G	Lab File ID: 0505902D
Level: (low/med) MED	Date Sampled: 05/06/08 09:15
% Moisture: not dec. 20	Date Analyzed: 05/10/08 03:35
GC Column: RTX-VRX ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000(uL)	Soil Aliquot Volume: 100(uL)
CONCENTRAT CAS NO. COMPOUND	MDL RL CONC RUGM
71-43-2Benzene 100-41-4Ethylbenzene 1634-04-4MTBE 108-88-3Toluene 1330-20-7Xylene(total)	26       280       U       U       U         42       280       500       U       K         18       280       U       K         48       280       750       U       K

FORM 1 VOLATILE ORGANICS ANALYSIS DATA S	CLIENT SAMPLE NO.
Lab Name: EMPIRICAL LABS Contract: SES	08127U02
Lab Code: NA Case No.: NA SAS No.	.: NA SDG No.: HAAF001
Matrix: (soil/water) SOIL	Lab Sample ID: 0805059-03
Sample wt/vol: 5.6 (g/mL) G	Lab File ID: 0505903A
Level: (low/med) LOW	Date Sampled: 05/06/08 10:43
% Moisture: not dec. 14	Date Analyzed: 05/09/08 21:14
GC Column: RTX-VRX ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CONCENTRA: CAS NO. COMPOUND	TION UNITS: (ug/L or ug/Kg) UG/KG MDL RL CONC Revigned
71-43-2Benzene         100-41-4Ethylbenzene         1634-04-4MTBE         108-88-3Toluene         1330-20-7Xylene(total)	0.49     5.2     9.2       0.78     5.2     6.1       0.33     5.2     0.1       0.89     5.2     0.1       0.72     5.2     0.1



FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SI	CLIENT SAMPLE NO. HEET
	08127U03
Lab Name: EMPIRICAL LABS Contract: SES	
Lab Code: NA Case No.: NA SAS No.	: NA SDG No.: HAAF001
Matrix: (soil/water) SOIL	Lab Sample ID: 0805059-04
Sample wt/vol: 4.9 (g/mL) G	Lab File ID: 0505904A
Level: (low/med) LOW	Date Sampled: 05/06/08 10:55
<pre>% Moisture: not dec. 17</pre>	Date Analyzed: 05/09/08 21:49
GC Column: RTX-VRX ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CONCENTRAT CAS NO. COMPOUND	MDL RL CONC RW 2 H
71-43-2Benzene         100-41-4Ethylbenzene         1634-04-4MTBE         108-88-3Toluene         1330-20-7Xylene(total)	0.57 0.92 0.39 1.0 0.86 6.1 U U U U U U U U U U U U U U U

FORM 1 VOLATILE ORGANICS ANALYSIS DATA S	HEET	CLIENT :	SAMPLE NO.		
Lab Name: EMPIRICAL LABS Contract: SES		08	127U04		
Lab Code: NA Case No.: NA SAS No.	· NA SD	G No.: HA	AF001		
Matrix: (soil/water) SOIL	Lab Sample				
Sample wt/vol: 5.4 (g/mL) G	Lab File I				
Level: (low/med) MED	Date Sample				
% Moisture: not dec. 7	Date Analy				
GC Column: RTX-VRX ID: 0.25 (mm)	Dilution F				
Soil Extract Volume: 5000(uL)	Soil Aliqu	lot Volume	e: 100 (	uL)	
CONCENTRATION UNITS: $(ug/L \text{ or } ug/Kg) UG/KG$ CAS NO. COMPOUND MDL RL CONC $R_{ev}^Q$					
71-43-2Benzene 100-41-4Ethylbenzene 1634-04-4MTBE 108-88-3Toluene 1330-20-7Xylene(total)	23 37 16 42 35	250 250 250 250 250 250	620 340	U U U K U K	

•

FORM 1 VOLATILE ORGANICS ANALYSIS DATA	CLIENT SAMPLE NO. SHEET
Lab Name: EMPIRICAL LABS Contract: SES	08127U05
Lab Code: NA Case No.: NA SAS No	.: NA SDG No.: HAAF001
Matrix: (soil/water) SOIL	Lab Sample ID: 0805059-06
Sample wt/vol: 5.4 (g/mL) G	Lab File ID: 0505906A
Level: (low/med) LOW	Date Sampled: 05/06/08 11:37
% Moisture: not dec. 19	Date Analyzed: 05/09/08 22:24
GC Column: RTX-VRX ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CONCENTRA'	$\begin{array}{ccc} \text{FION UNITS:} & (\text{ug/L or ug/Kg}) & \text{UG/KG} \\ \text{MDL} & \text{RL} & \text{CONC} & \begin{array}{c} Q \\ R & \end{array} \end{array} \right) \\ & & & & & & \\ \end{array}$
71-43-2Benzene         100-41-4Ethylbenzene         1634-04-4MTBE         108-88-3Toluene         1330-20-7Xylene(total)	0.54 5.7 U M 0.86 5.7 75 J P 0.36 5.7 75 J P 0.98 5.7 U M 0.80 5.7 70 J P

FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA S	CLIENT SAMPLE NO.
Lab Name: EMPIRICAL LABS Contract: SES	08127U05D
Lab Code: NA Case No.: NA SAS No.	: NA SDG No.: HAAF001
Matrix: (soil/water) SOIL	Lab Sample ID: 0805059-07
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: 0505907D
Level: (low/med) MED	Date Sampled: 05/06/08 11:37
% Moisture: not dec. 19	Date Analyzed: 05/10/08 04:46
GC Column: RTX-VRX ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000(uL)	Soil Aliquot Volume: 100(uL)
CONCENTRAT CAS NO. COMPOUND	$\begin{array}{ccc} \text{FION UNITS:} & (\text{ug/L or ug/Kg}) & \text{UG/KG} \\ \text{MDL} & \text{RL} & \text{CONC} & \begin{array}{c} Q \\ & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & $
71-43-2Benzene 100-41-4Ethylbenzene 1634-04-4MTBE 108-88-3Toluene 1330-20-7Xylene(total)	29 310 46 310 570 20 310 53 310 43 310 160 J ブ 17



**ORGANIC CASE NARRATIVE** SES – Ft. Stewart Pumphouse 2 at HAAF SDG: HAAF001 Work Orders: 0805059 and 0805093

#### **Volatile Samples**

The samples were analyzed by USEPA SW-846 Methods 5035/8260B or Method: 5030B/8260B (Encore field sampling with laboratory preservation or VOA vial field sampling/preservation then low concentration purge and trap followed by capillary column GC/MS) for waters or soils upon receipt to the laboratory in satisfactory condition.

**Comments:** The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note:

- Note: Samples were analyzed for benzene, toluene, ethylbenzene, xylene (total) and MTBE.
- Due to high concentrations of ethylbenzene and/or xylene (total), samples 08127U01, 08127U04 and 08127U05D could not be analyzed from the low-level vial and the low-level method detection limits/estimated quantitation limits could not be achieved. Detected concentrations in these samples would be reported down to the method detection limit with a "J" qualifier to indicate the result as estimated.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

RCR Marcia K. McGinnity

Senior Project Manager



00001



## **Empirical Laboratories** ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

- **MDL:** The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.
- EQL: The estimated quantitation limit (EQL), also known as reporting limit (RL), is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.
- U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.
- **B**: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.
- **D:** When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".
- **E:** The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.
- J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.
- **P**: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is apparent.



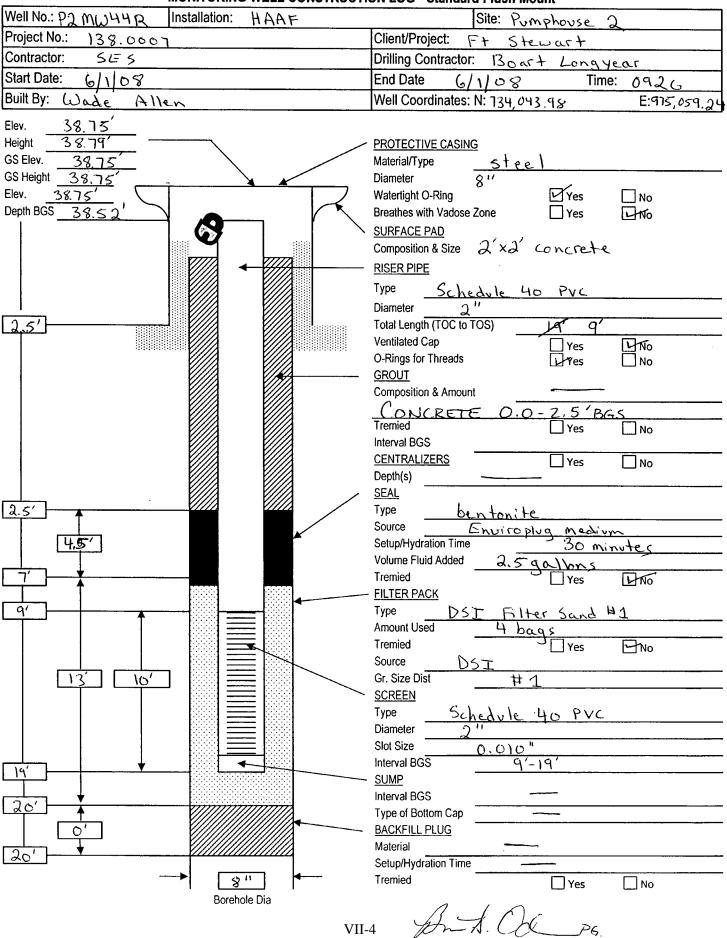
## **APPENDIX VII**

# SOIL BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

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BORING LOG PAGE OF SITE: Pumphous BORING/WELL NO .: P2MW44R INSTALLATION: HAAF CLIENT/PROJECT: Ft Stewart PROJECT NO .: 138.0007 DRILLING CONTRACTOR: BOArt Long Year CONTRACTOR: SES. ORILLER: Wade Allen BOREHOLE DIAMETER(S): 8 START - DATE: 6 / 1 /08 TIME: 07:30 END - DATE: 6 / 108 TIME: 09:20 DRILLING METHOD/RIG TYPE: Auger COORDINATES: N 734,043,98 E 975,059.24 LOGGED BY: Do E-LOG (Y N) FROM T0 **PROTECTION LEVEL:** D WenConstruction Data 5 Eler. (11) Suoidopic Log GIM Power wⁿ Wegoing ce Blons 6. Not 0' Ost (12) Deptro *6*8 Recovert Somple ple file sile Jec. ONA Lithologic Description 38.75 N/A 0.04/4 0'-H-+ dry, low plasticity, loose, ٧A NANNN N SM theft graded, 7.54R 6/4 light brown silty sand 4-16- dry, low plasticity, loose, medium 20 4/4 SM NA GLEY 1 4/ dark grey silly sand to 6.8 4/4 SM 3.0 40 7.6 10'-4/4 6.8 SM to 22 15 -SM 9.6 16-20 - + wet, low plasticity, medium 4/4 to 81.6 dense, poorly gladed, coolse 7.5 YR 7/1 light grey sand, water encountered at 16' 20'-Bosing terminated at 20 25 30 0 DEFGHIDA 8 A С Ν К М 35 On-Site G/C (Make/Model): U • Thin Wall Tube R - Rock Coring G/C Operator: S = Split Spoon (tube) 0 * Other C - Cuttings OVA Instrument (Make/Model): _______ VII-3 Notes:

^{1,10000} CC 11-3-071



#### **MONITORING WELL CONSTRUCTION LOG - Standard Flush Mount**

VII-4

	BORI	NG LOG	PAGE OF
BORING/WELL NO .: P2	MW45R INSTALLATION: HAA		Pumphouse 2
PROJECT NO .: EOI	38.0007	CLIENT/PROJECT: F+ St	ewart
CONTRACTOR: SES	· · · · · · · · · · · · · · · · · · ·	DRILLING CONTRACTOR: BC BOREHOLE DIAMETER(S):	art Longyear
DRILLER: Wade !	Hlen	BOREHOLE DIAMETER(S):	8
START - DATE: 6 /		END - DATE: 6 /1 /09	3 TIME: 11 : 10
DRILLING METHOD/RIG		COORDINATES: N 734,009.2	7 E 975,047.98
LOGGED BY: Dova	Hawn E-LOG (Y/NDF	ROM TO PROTEC	CTION LEVEL: D
			0010
HIP.	TIM por in all		n i log tion &
(N) 40. Cop 00	ound che and		solo not construction Dold states
apticanole note site site site and	C ^(1N) (pp ^{m)} (n) ob ^{og} (co ^{port} (t) ¹¹⁾ co ^{bog} (co ^{port} Lithologic Descri	ption 5 ⁵ %	**16 inch 400 me Log Waternah 38,92'
0000 5000 5000 01 500 500 01 00 01 00 01 00 00 00 00 00 00 00 0	White of the party of the party of the	Lince that a NIA	· · · · · · · · · · · · · · · · · · ·
	4/4 0'-4'-+ dry, low plasticity graded, 7.5 yR 6/4 light b	when sitter	
	Sand		
	xavie		
	H/4 4'-19'-> dry, low plashi medium GLEY1 4/ dark	Grey silly SM	
	- Medium GLEY1 4/ dar	e gred sirry	
	sand		
12	ч/ч	SM	
		· · ·	
	4)4	SM	
+-			
	2		
·			
-       24	4/4 encounter_ V at 16'	Sm	
	0		
,	Boring terminated at	19	
			·
ABCDEFG	HIJONA Ca PG	JK	
U - Thin Wall Tube	R - Rock Coring	On-Site G/C (Make/M	
S = Split Spoon (tube	) 0 = Other	G/C Operator:	
C - Cuttings	OVA Instrument (Make/Model): <u>m</u>	INIRAE 2000 PID	
ic = cutunas		II-5	

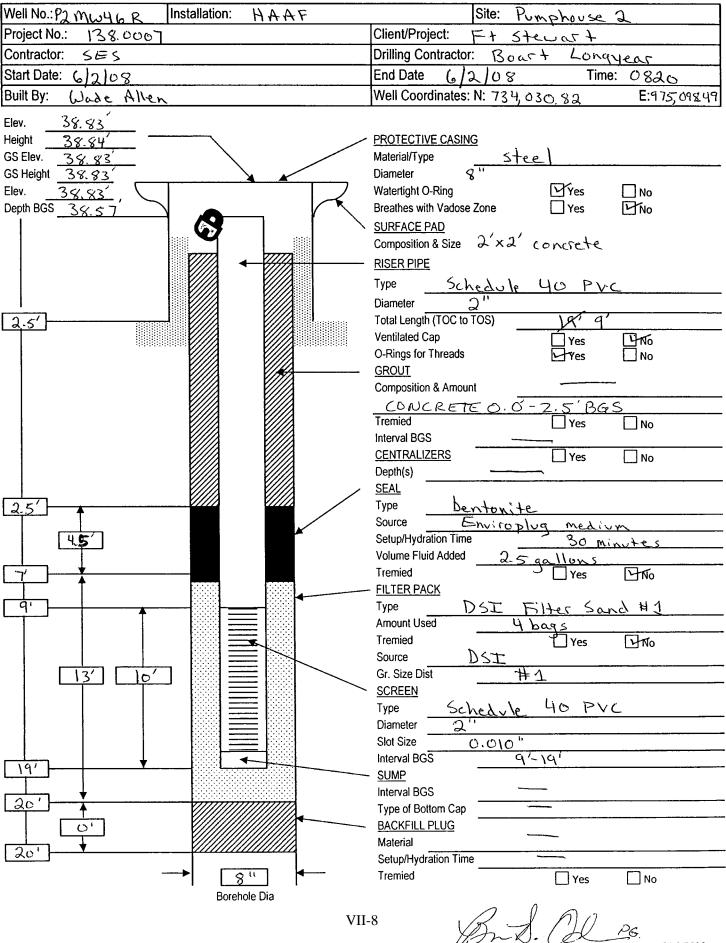
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Well No .: P2 MW45 R Installation: HAAF	Site: Pumphouse 2
Project No.: 138.0007	Client/Project: Ft Stewart
Contractor: $SES$	Drilling Contractor: Boart Longyear
Start Date: 6/1/08	End Date 6/1/08 Time: 1110
Built By: Wade Allen	Well Coordinates: N: 734,009.27 E:975047.48
Elev. <u>38.92</u>	
Height <u>38.94</u> GS Elev. <u>38.92</u>	PROTECTIVE CASING Material/Type Steel
$\frac{38.12}{35.92}$	PROTECTIVE CASING Material/Type <u>steel</u> Diameter 8''
Elev. 38.92	Watertight O-Ring
Depth BGS 38.61'	Breathes with Vadose Zone
	SURFACE PAD
	Composition & Size 2'x2' concrete
	RISER PIPE
	Type Schedule 40 PVC
	Diameter 2'
2.5'	Total Length (TOC to TOS)
	Ventilated Cap
	O-Rings for Threads GROUT No
	Composition & Amount
	CONCRETE 0.0-2.5'BGS
	Tremied Yes No
	Interval BGS
	CENTRALIZERS Yes No
	Depth(s)
	SEAL Tura
2.5	Type <u>bentonite</u> Source <u>Enviseplus</u> medium
3.55'	- where he
	Setup/Hydration Time <u>30 minutes</u> Volume Fluid Added <u>2-5 galluns</u>
	Tremied Yes Mo
	FILTER PACK
<u>8</u> ′	Type DSI Filter Sand #1
	Amount Used 4 bags
	Tremied Yes Yro
	Source DST Gr. Size Dist #1
	SCREEN
	Type Schedule 40 PVC
	Diameter 2 '
	Slot Size
	Interval BGS 8'-18'
	Interval BGS
	BACKFILL PLUG
	Material
	Setup/Hydration Time
	Tremied Yes No
Borehole Dia	
VII-	6 1 1 0 1
	Ton A. CA PE
Monitoring Well Construction Log (2)	9/12/2008

#### **MONITORING WELL CONSTRUCTION LOG - Standard Flush Mount**

**BORING LOG** PAGE ) OF SITE: Pumphon INSTALLATION: BORING/WELL NO .: P2MWY6R HAAF CLIENT/PROJECT: + Stewart PROJECT NO .: EU 138.0007 DRILLING CONTRACTOR: BOATT Longyear CONTRACTOR: SES BOREHOLE DIAMETER(S): DRILLER: Winde Allen END - DATE: 6 / 2 /08 TIME: 06 : 45 TIME: 08:20 START - DATE: 6 / 2 /08 COORDINATES: N 734,030.82 E 975,098.49 DRILLING METHOD/RIG TYPE: Auger **PROTECTION LEVEL:** E-LOG (Y / (ND) FROM T0 シ LOGGED BY: Duug Ho Well Construction Data Site Peologice -staligrophic Log Recovery INITY <u>cs</u> flet Water profits Blows 6 wer N) de sile sile \$^{C5} 0 - Dear Son 38.83 Lithologic Description 4/4 0'-4'- dry, low plasticity, medium NA NA N N NA 0.0 MA SM graded 7.5YR 6/4 light brown silty sand 7.4 4/4 4-16 - dry, low plasticity, loose, medium to 4/4 GLEY1 41 dark grey silty sand SM 21.0 21.0 Sim tu 44 10 -51.2 14.2 4/4 SM ъ 576 15 4/4 16-20 - puet. low plusticity, medium 60 SM dense, poorly gruded, coarse 7,54R7/1 light grey sand, water encomledat 16 20 -Boring terminated at 20. 25 -30. 0 K М G С D Ε F 8 Н 35 On-Site G/C (Make/Model): U - Thin Wall Tube R = Rock Coring G/C Operator: S = Split Spoon (tube) O = Other C - Cuttings Notes:

UCN-18899_FC (4-3-97)



#### **MONITORING WELL CONSTRUCTION LOG - Standard Flush Mount**

## **APPENDIX VIII**

# WASTE DISPOSAL MANIFESTS

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# SOIL DISPOSAL MANIFESTS

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2056528083

ATLANTIC WASTE

P.2/5

PAGE 02/08

	Sted Discosed Function.	Perite Number
	mewal for Profile Number	Profile Number
A.Waste Generator	Pacility Information	maste Approval Expiration Date 11 - 22 - (
<ol> <li>Generator Name: US Am</li> </ol>	The Fort Stolenort and Lt.	et tocation of waste generation/origin)
2. Site Address: 1660 Frank		a shinada
3. City/ZIP: Fort Stewart / 3	1314-4927	/ thail Address: wavne, birson@vs.army.mii
4. State: Georgia		o, rhone: <u>972-315-4226</u> 9 FM 047 545 545
6. Contact Name/Title: Way	Ine Hinson /Environmental Engli	10. NAIUS Code:      11. Génerator USEPA ID #: <u>GA9210020877</u> DESET 12. State ID# (if applicable)
B. Customy Inform		
1. Customer Name: Affantiou	Alexte D.	P. 0. Number: 6. Phone: 912~964-2000   FAX: 912-964-2009 7. Transporter Name: Attack and a starting a starting a sta
Z. Billing Address 125 B Ba	Vesto Services	6. Phone: 912-964-2000   FAX: 912.004 por
3. City, State and 71P: Prode		6. Phone: 912-964-2000 [ FAX: 912-964-2009     7. Transporter Name: Atlantic Wasts Services     8. Transporter TD # Git and 11
4. Contact Name: Therese Co		7. Transporter Name: <u>Atlantic Wasta Services</u> 8. Transporter ID if (if appl.):  9. Transporter Address: 125 B place March
. Contact Email:		8. Transporter ID (/ (if appl.): 9. Transporter Address: <u>125 B Pine Meadow Drive</u> 10. City. State and ZIP: Beneficie Od Address
C.Waste Stream Infor		9. Transporter Address: <u>125 B Pine Meadow Drive</u> 10. City, State and ZIP: <u>Boolec.GA 31322</u>
DEC COLONY		
a. Common Waste Name: 2	Petroleum Fiel Contaminsted	
b. Describe Process Concer	nid Clean-up Debris	State Waste Code(s):
Sail Contaminated with		
dufing fuel transferrer	gasoline and/or diesel fuel	I from a product spill or leaking UST or minor spills experienced
L		and the second and the second se
c. Typical Color(s): Gray	/ Brown / Black	sandy soil
a. Strong Udor? LI Yes	D No Describe: Fuel	
e. Physical State at 70°Fi	D No Describe: Fuel	
e. Physical State at 70°Fi f. Layers? D Single law	No Pescribe: <u>Fuel</u> Solid D Liquid D P	owder 🖸 Semi-Solid or Studge 🖸 Öther:
<ul> <li>a. Strong Udoy? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (aya</li> <li>g. Water Reactive? [] Yes</li> </ul>	No Describe: <u>Fuel</u> Solid D Liquid D P  er D Multi-layer C NA  S F1 No IS Van Daar H	owder 🖸 Semi-Solid or Studge 🖸 Öther:
<ul> <li>a. Strong Uddy? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (ay)</li> <li>g. Water Reactive? [] Ye</li> <li>h. Free Liquid Range (%):</li> </ul>	No Describe: <u>Fuel</u>	Yowder 🖸 Semi-Solid or Studge 🖸 Dither:
a. Strong Uddy? Li Yes e. Physical State at 70°F: f. Layers? D Single (aye g. Water Reactive? D Ye h. Free Liquid Range (%): i. pH Range: D <2	No Describe: Fuel     Solid □ Liquid □ P.     er □ Multi-Layer ① NA es ඞ No If Yes, Describe:     to 안 NA	owder 🖸 Semi-Solid or Studge 🗋 Dither:
a. Strong Udoy? [] Yes e. Physical State at 70°F: f. Layers? [] Single (ay) g. Water Reactive? [] Ye h. Free Liquid Range (%): i. pH Range: [] <u>s</u> 2 [] j. Liquid Flash Points	No Describe: <u>Fuel</u> Solid □ Liquid □ P er □ Multi- layer ① NA es ඞ No If Yes, Describe: to ② NA 0 2.1-12.4 □ 212.5 ☑ NA □ 2.140°F □ = 240°F	owder 🖸 Semi-Solid or Studge 🖸 Dither:
a. Strong Udoy? [] Yes e. Physical State at 70°F: f. Layers? [] Single (ay) g. Water Reactive? [] Ye h. Free Liquid Range (%): i. pH Range: [] <2 [] j. Liquid Flash Point: k. Flammable Solid: []]		Yowder 🖸 Semi-Solid or Studge 🖬 Üther: (solid) (solid) 🔲 Actual: 🟹 NA(solid) 🛄 Actual:
a. Strong Udoy? [] Yes e. Physical State at 70°F: f. Layers? [] Single (ay) g. Water Reactive? [] Ye h. Free Liquid Range (%): i. pH Range: [] <2 [] j. Liquid Flash Point: k. Flammable Solid: []]		Yowder 🖸 Semi-Solid or Studge 🖬 Üther: (solid) (solid) 🔲 Actual: 🟹 NA(solid) 🛄 Actual:
<ul> <li>a. Strong UdoY? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (aye</li> <li>g. Water Reactive? [] Ye</li> <li>h. Free Liquid Range (%):</li> <li>i. pH Range: [] s2 []</li> <li>j. Liquid Flash Point:</li> <li>k. Flammable Solid: []</li> <li>l. Physical Constituents: List</li> </ul>	No Describe: Fuel     Solid □ Liquid □ P. er □ Multi-layer ① NA es ඞ No If Yes, Describe:     to ① 12.5 ඞ NA 0 2.1-12.4 □ 212.5 ඞ NA 0 2.1-12.4 □ 212.5 ඞ NA 0 2.140°F □ 2.140°F 4 Yes ඞ No t all constituents of waste stream	Yowder 🖸 Semi-Solid or Studge 🖬 Dther: (solid) (solid) 🔲 Actual: I (solid) 🛄 Actual: M - (e.g. Soil 0-80%, Wood 0-20%): 🛄 (Sme Attached)
a. Strong Udoy? [] Yes e. Physical State at 70°F: f. Layers? [] Single (ay) g. Water Reactive? [] Ye h. Free Liquid Range (%): i. pH Range: [] <u>s</u> 2 [] j. Liquid Flash Point: k. Flammable Solid: [] l. Physical Constituents: List Constituents (Total Composition 1. SOIL		Yowder       Semi-Solid or Sludge       Dther:         Solid)       Solid)         Solid)       Actual:         Image: Solid - 80%, Wood 0-20%):       D (See Attached)         on %       Constituents (Total Composition Must be > 100%)       Concentration N
<ul> <li>a. Strong Udoy? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (ay)</li> <li>g. Water Reactive? [] Ye</li> <li>h. Free Liquid Range (%):</li> <li>i. pH Range: [] 52</li> <li>j. Liquid Flash Point:</li> <li>k. Flammable Solid: []</li> <li>l. Physical Constituents: List</li> <li>Constituents (Total Composition Soil</li> <li>soil</li> <li>absommants</li> </ul>	Image: Solid in the second	Yowder       Semi-Solid or Sludge       Dther:         Solid)       (solid)       Actual:         Solid)       Actual:
<ul> <li>a. Strong UdoY? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (aye</li> <li>g. Water Reactive? [] Ye</li> <li>h. Free Liquid Range (%):</li> <li>i. pH Range: [] s2 []</li> <li>j. Liquid Flash Point:</li> <li>k. Flammable Solid: []</li> <li>l. Physical Constituents: List</li> </ul>		Yowder       Semi-Solid or Sludge       Dther:         Alsolid)       (solid)         (solid)       Actual:         (solid)       Actual:         M - (e.g. Soil 0-80%, Wood 0-20%):       Constituents (Total Composition Aust be > 100%)         Annellian debds-wood/plastic/metal       1-5
a. Strong UdoY? □ Yes e. Physical State at 70°F: f. Layers? □ Single (aye g. Water Reactive? □ Ye h. Free Liquid Range (%): i. pH Range: □ ≤2 □ j. Liquid Flash Point: k. Flammable Solid: □ l. Physical Constituents: List Constituents (Total Composition SOIL absorbants . gas of diesel first	Image: Solid in the second	Yowder       Semi-Solid or Sludge       Dther:         Actual:
<ul> <li>a. Strong Udoy? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (aye</li> <li>g. Water Reactive? [] Ye</li> <li>h. Free Liquid Range (%):</li> <li>i. pH Range: [] &lt;2 []</li> <li>j. Liquid Flash Points</li> <li>k. Flammable Solid: []</li> <li>j. Liquid Flash Points</li> <li>k. Flammable Solid: []</li> <li>l. Physical Constituents: List</li> <li>Constituents (Total Composition</li> <li>j. Soil</li> <li>absomants</li> <li>. absomants</li> <li>. G2E of piecel fixed</li> </ul>	Image: Construction of the second	Yowder       Semi-Solid or Sludge       Dther:         Actual:
a. Strong Udoy? [] Yes e. Physical State at 70°F: f. Layers? [] Single (aye g. Water Reactive? [] Ye h. Free Liquid Range (%): i. pH Range: [] s2 [] j. Liquid Flash Point: k. Flammable Solid: [] l. Physical Constituents: List Constituents (Total Composition . SOIL . absorbants . gas of dissel fiel STIMATED QUANTITY OF WAST a. [] Event [] Base/Ongoi	Image: Solid in the second	Yowder       Semi-Solid or Sludge       Dther:         Solid)       (solid)       Actual:         Solid)       Actual:
a. Strong Udoy? [] Yes e. Physical State at 70°F: f. Layers? [] Single (aye g. Water Reactive? [] Ye h. Free Liquid Range (%): i. pH Range: [] <2 [] j. Liquid Flash Point: K. Flammable Solid: [] I. Physical Constituents: List Constituents (Total Composition I. SOII] absommants . assomants . assoma	Image: Solid in the second	Yowder       Semi-Solid or Sludge       Dther:         Isolid       (solid)       Actual:         Isolid       Actual:
<ul> <li>a. Strong Udoy? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (aye</li> <li>g. Water Reactive? [] Ye</li> <li>h. Free Liquid Range (%):</li> <li>i. pH Range: [] &lt;2 []</li> <li>j. Liquid Flash Point:</li> <li>k. Flammable Solid: []</li> <li>j. Liquid Flash Point:</li> <li>k. Flammable Solid: []</li> <li>l. Physical Constituents: List</li> <li>Constituents (Total Composition</li> <li>j. Soil</li> <li>absomants</li> <li>Gas of rised field</li> <li>STIMATED QUANTITY OF WAST</li> <li>a. Stimated Annual Quantity</li> <li>Shipping Frequency:</li> </ul>	Image: Solid Contraction       Solid Contraction         Image: Solid Contraction       Solid Contraction         er       Multi-layer       NA         er       Multi-layer       NA         es       Image: Solid Contraction       Solid Contraction         1       2.1-12.4       Solid Solid Contraction         Image: Solid Contraction       Solid Contraction         Image: Solid Contraction       Solid Contraction         Image: Solid Contraction       Solid Contraction         Image: Must be and Solid Contraction       Solid Contraction         Image: Solid Contratin       Solid Contraction	Yowder       Semi-Solid or Sludge       Dther:         Solid)       Actual:         Solid)       Actual:         Mathematical       Solid         Mathematical       Solid         Mathematical       Solid         Solid)       Actual:         Mathematical       Solid         Solid       Actual:         Mathematical       Solid         Solid       Constituents (Total Composition Must be = 100%)         Constituents (Total Composition Must be = 100%)       Concentration %         1.5       Solid         6.       Solid         7.
<ul> <li>a. Strong Udoy? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (aye</li> <li>g. Water Reactive? [] Ye</li> <li>h. Free Liquid Range (%):</li> <li>i. pH Range: [] s2 []</li> <li>j. Liquid Flash Point:</li> <li>k. Flammable Solid: []</li> <li>j. Liquid Flash Point:</li> <li>s. Solid: []</li> <li>s. Solid: [</li></ul>	Image: Solid in the second	Yowder       Semi-Solid or Studge       Dther:         Solid)       (solid)       Actual:         Solid)       Actual:
<ul> <li>a. Strong Udoy? [] Yes</li> <li>e. Physical State at 70°F:</li> <li>f. Layers? [] Single (ay)</li> <li>g. Water Reactive? [] Ye</li> <li>h. Free Liquid Range (%):</li></ul>	Image: Constraint of the second s	Yowder       Semi-Solid or Studge       Dther:         Solid)       (solid)       Actual:         Solid)       Actual:

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Delisted Hazardous Wester

7. Does the waste contain asbestos?

40 CFR 63 subpart GGGGG)?

disclosed to WM/the Contractor;

5. Check all that apply:

Attachment #;

available upon request.

Treabcd Hezardous Waste Debris

a. If yes, is disposal regulated under TSCA?

.....

D. Regulatory Status (Please check appropriate responses)

4. Does the waste represented by this waste profile sheet contain radioactive material?

b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM?

a. If yes, is disposal regulated by the Nuclear Regulatory Commission?

6. Does the waste contain untreated, regulated, medical or infectious waste?

By signing this Generator's Waste Profile Sheet, I hereby certify that all-

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative.

Uiyes 201 No

If yes, does the waste contain ~500 ppmw VOHAPs at the point of determination?

E. Generator Certification (Please read and certify by signature below)

3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions,

2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation.

Generator's Nonhazardous Waste Profile Sheet

5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? 🔾 Yes 🗹 No

8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP,

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material: 2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been

PAGE 03/08

1 No

🖾 No

DÍ No

M No

P.3/5

O Yas

CI Yes

🛛 Yes

QYes

If Yes. D Friable D Non Friable

Tes D No

# Pages; 5

Ci Yes

O Yes ON No

**ビ No** 

🗹 No

Ci Yes

DYES CONO

TYES D NO

ATLANTIC WASTE

D Excluded Wastes Under 40 CFR 261.4

🖸 Treated Characteristic Hazardous Waste

3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and 4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the wasts to WM (and the Contractor if applicable). I Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: Sample PH2 TCLP (Full TCLP, RCI) Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is

O By Generator process knowledge, the fol	owing waste is not a listed waste and is below all TCLP regulatory limits.

Company Name: <u>ARE Factors of the C. Ma</u> Date: <u>5-21-08</u>	I Div Name (Print): Wayna C.	Engelizer
	FOR WM USE ONLY	
Management Method: A Landfill D Bioremediat Non-hazardous solidification D Other: Management Facility Precautions, Special Handli on approval:	tion Approval Decision: Appro- Waste Approval Expiration Date: 1 ling Procedures of Limitation D Shall not contain fi D Shipment must be s	
WM Authorization Name / Titles	alidams Manifest mus	st accompany load Dates 2-02-05
\$2006 Waste Management, Inc.	Page 2 of 2	Gasember 2006

8/ 8 08:14:19 02-12-5008

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### CLIENT: SES, LLC DATE RECEIVED: 05/07/08

DATE REPORTED: 05/14/08

EMPIRICAL LABORATORIES SAMPLE NUMBER					0805054-01	
CLIENT SAMPLE DESCRIPTION/SAMPLING DATE					PH2 TCLP 5/6/2008 9:45:00 AM	
	REGULATORY		REPORTING	USEPA		-
ANALYTES	LIMITS	MDL	LIMITS	METHOD	UNITS	CONC
	50	0.000	0.40	4044/60405		<0.020
Arsenic-TCLP	5.0	0.030	0.10	1311/6010B	mg/L	< 0.030
Barium-TCLP	100	0.050	2.0	1311/6010B	mg/L	0.155
Cadmium-TCLP	1.0	0.010	0.050	1311/60 <b>1</b> 0B	mg/L	<0.010
Chromium-TCLP	5.0	0.020	0.10	1311/6010B	mg/L	<0.020
Lead-TCLP	5.0	0.015	0.030	1311/6010B	mg/L	0.120
Mercury-TCLP	0.20	0.00080	0.0020	1311/7470A	mg/L	<0.00080
Selenium-TCLP	1.0	0.030	0.050	1311/6010B	mg/L	<0.030
Silver-TCLP	5.0	0.010	0.10	1311/6010B	mg/L	<0.010
Initial pH - TCLP	NA	NA	NA	1311	Units	6.5
Final pH - TCLP	NA	NA	NA	1311	Units	5.0
Cyanide	250	0.13	0.25	9012A	mg/kg (as Rec'd)	<0.13
Ignitability	<140	NA	NA	101 <b>0</b>	۴F	>158
pH- Laboratory (1)	<2/>12.5	NA	NA	9045B	Units	7.0 @ 25°C
Reactive Sulfide	500	19	57	Chap.7.3.4.2	mg/kg (as Rec'd)	<19

See attached page for definitions of terms and qualifiers.

EMPIRICAL LABORATORIES

D. Rick Davis Vice President

# FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

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CLIENT SAMPLE NO.

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VOLATIDE ORGA	ATC2 MINUTAT2	DATA SILLE	L .		
Lab Name: EMPIRICAL LABS	Contract:	SES		PH2 TCLP	
Lab Code: NA Case 1	No.: NA	SAS No.: N	A SDG NG	o.: SES.V05054	
Matrix: (soil/water) TCLP		La	b Sample ID	: 0805054-01	
Sample wt/vol: 5.00	) (g/mL) ML	La	b File ID:	0505401T	
Level: (low/med) LOW		Da	te Sampled:	05/06/08 09:4	5
% Moisture: not dec.		Da	te Analyzed	: 05/09/08 21:5	1
GC Column: RTX-VRX ID:	0.25 (mm)	Di	lution Facto	or: 1.0	
Soil Extract Volume:	(uL)	So	il Aliquot '	Volume:	(uL)
	CON	CENTRATION	UNITS: (ug	g/L or ug/Kg) M	G/L
			TC	LP	

CAS NO.	COMPOUND	EQL	Regulatory Limit	CONC	Q
78-93-32- 56-23-5Ca 108-90-7Cl 67-66-3Cl 106-46-71 107-06-21 75-35-41	arbon tetrachloride hlorobenzene 4-Dichlorobenzene 2-Dichloroethane 1-Dichloroethene etrachloroethene cichloroethene		.0         200           .0         0.50           .0         100           .0         6.0           .0         7.5           .0         0.50           .0         0.70           .0         0.70           .0         0.50	<0.010 <0.010 <0.010 <0.010 <0.010 <0.010	U U U U U U U U U U

FORM I VOA

#### FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

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CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA	SHEET
Lab Name: EMPIRICAL LABS Contract: SES	PH2 TCLP
Lab Code: NA Case No.: NA SAS No.	: NA SDG No.: SES.B05054
Matrix: (soil/water) TCLP	Lab Sample ID: 0805054-01
Sample wt/vol: 100.0 (g/mL) ML	Lab File ID: 0505401T
% Moisture: decanted: (Y/N)	Date Sampled: 05/06/08 09:45
Extraction: (SepF/Cont/Sonc/Soxh) SEPF	Date Extracted:05/08/08
Concentrated Extract Volume: 1000.0(uL)	Date Analyzed: 05/09/08 12:18
Injection Volume: 0.5(uL)	Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: NA	

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

50       0.13         50       0.50         50       3.0         50       200         50       200         50       200         50       200         50       200         50       2.0         20       100         20       5.0         50       400	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.20 <0.20 <0.050	บ บ บ บ บ บ บ บ บ

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# FORM 1 PESTA ORGANICS ANALYSIS DATA SHEET

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CLIENT SAMPLE NO.

EDDIV O	TOUTITO HIM	LIGIO DAIN O		
Lab Name: EMPIRICAL	LABS Con	tract: SES		PH2 TCLP
Lab Code: EL	Case No.:	SAS N	o.: NA SDG No	o.: SES.P05054
Matrix: (soil/water)	TCLP		Lab Sample ID	: 0805054-01
Sample wt/vol:	100.0 (g/m	L) ML	Lab File ID:	008R0801
% Moisture:	decanted:	(Y/N)	Date Sampled:	05/06/08 09:45
Extraction: (SepF/C	ont/Sonc/So	xh) SEPF	Date Extracted	d:05/09/08
Concentrated Extract	Volume:	10.0(mL)	Date Analyzed	: 05/14/08 11:30
Injection Volume:	2.0(uL)		Dilution Facto	or: 1.0
GPC Cleanup: (Y/N)	N p	H: NA	Sulfur Cleanup	: (Y/N) N
		CONCENTR	ATION UNITS: (ug	g/L or ug/Kg) MG/I

CAS NO. COMPOUND	EQL Re	TCLP egulatory Limit	CONC	Q
57-74-9Chlordane         72-20-8Endrin         58-89-9Gamma-BHC         76-44-8Heptachlor         1024-57-3Heptachlor         2-43-5Methoxychlor         8001-35-2Toxaphene	$\begin{array}{c} 0.00050\\ 0.00010\\ 0.00010\\ 0.00010\\ 0.00010\\ 0.00010\\ 0.00010\\ 0.010\end{array}$	$\begin{array}{c} 0.030\\ 0.020\\ 0.40\\ 0.0080\\ 0.0080\\ 10\\ 0.50\\ \end{array}$	<0.00050 <0.00010 <0.00010 <0.00010 <0.00010 <0.00010 <0.010	ប ប ប ប ប

FORM 1 HERB ORGANICS ANALYSIS DATA SHEET

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CLIENT SAMPLE NO.

TIERD ORGANICS ANALISIS DAIR SIN	ر <del>محمد معمد معمد معمد معمد معمد معمد معمد </del>
Lab Name: EMPIRICAL LABS Contract: SES	PH2 TCLP
Lab Code: EL Case No.: SAS No	.: NA SDG No.: SES.H05054
Matrix: (soil/water) TCLP	Lab Sample ID: 0805054-01
Sample wt/vol: 100.0 (g/mL) ML	Lab File ID: 007F0301
<pre>% Moisture: decanted: (Y/N)</pre>	Date Sampled: 05/06/08 09:45
Extraction: (SepF/Cont/Sonc/Soxh) SEPF	Date Extracted:05/09/08
Concentrated Extract Volume: 10.0(mL)	Date Analyzed: 05/14/08 11:45
Injection Volume: 2.0(uL)	Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: NA	Sulfur Cleanup: (Y/N) N
CONCENTRA	TION UNITS: (ug/L or ug/Kg) MG/L
CAS NO. COMPOUND	TCLP EQL Regulatory CONC ( Limit
94-75-72,4-D 93-72-12,4,5-TP (Silvex)	0.0050 10 <0.0050 U 0.00050 1.0 <0.00050 U

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tlantic ste services	NON-HAZARDOUS WA	STE MANIFEST		
Billing Address: ATLA INC. WISTE				31322
Site Address: ICG ITTACANTHUR	CIRCLE, LLDE 615	SAVANNAM 6	A ZIACA	
County of Origin: <u>Chevitteet</u>			112 315 12	26
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SOIL / RUNKIS	15	101132.6A	1	- Jacob
/				
Special Handling Instructions			÷ .	
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable	d materials are non-hazardou d accurately described, class le regulations.	is wastes as defined by sified and packaged and	40 CFR Part 261 o	r any ition
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable	d materials are non-hazardou d accurately described, class le regulations.	is wastes as defined by	40 CFR Part 261 o	r any
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Wayma Generator Authorized Agent Name CANSPORTER Transporter Name: An AME	d materials are non-hazardou d accurately described, class regulations.	is wastes as defined by ified and packaged and <u>Uby</u> Signature DOT#	40 CFR Part 261 o	r any ition Date Shipped
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Wayma Generator Authorized Agent Name CANSPORTER Transporter Name: <u>An America</u>	d materials are non-hazardou d accurately described, class regulations.	is wastes as defined by ified and packaged and <u>Uby</u> Signature DOT#	40 CFR Part 261 o d are in proper cond	r any ition Date Shipped
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Way Andrews Generator Authorized Agent Name CANSPORTER Transporter Name: Address: Name of Authorized Agent SPOSAL FACILITY Site Name: Address:	A materials are non-hazardou d accurately described, class re regulations.	is wastes as defined by sified and packaged and Signature DOT#: Truck Number:	40 CFR Part 261 o d are in proper cond	r any ition Date Shipped

	all and an and and an an ar			0220
Atlantic NON-H.	AZARDOUS WAS	TE MANIFEST		
Generator Name: (15 Alemany - HUNTER HRE	Y ARFILLD	US EPA ID#	ATA GAY	210022733
Billing Address: Ant Anton What Service	125 B THE	WALKA IN RO	aux 61 313	12
Site Address: 106 Mixikenne CB. B	106 615 . SP	ITANHARY	6A 31409	
County of Origin: CHARAGER		Phone:	M2 355 422	.6
Description of Waste	Total Quantity	Profile Number		Container Type
SCIL/DERKIS	ł	1011326A		
	3. J. *		54 3 - 1	
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat	tely described, classifi	ied and packaged and	40 CFR Part 261 or d are in proper condit	any lion
Generator Authorized Agent Name		Signature		Date Shipped
TRANSPORTER Transporter Name: Address: Address: Address:	HENICES HENICES HENICES			
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY Site Name: SUPERIOR Address: Son Little I hereby acknowledge receipt of the above desc	en shin			
Name of Authorized Agent		Signature		Date Received

1

				0204
Atlantic NON-H	AZARDOUS WAS	TE MANIFEST		
GENERATOR			10 00	
Generator Name: 11 11 11 11 - 1 UNDER THEM	of HINGIELD	US EPA ID#	HA GA	121002213
Billing Address: Manac WA DE TRUCK	RUBLINE MU	WENT AS RELL	a left stra	2
Site Address: ICC- Mix ANTAN CIC 190	DE UTS, AVA	NHAM CH 314	-07	
County of Origin: Character H		Phone:	10. 319 42	26
Description of Waste	Total Quantity	Profile Number	05054 - 01 Unit of Measure	Container Type
Jon-/ NEBRIS	1.	1011.32 GA		
One side Mondling Instructions				
Special Handling Instructions	1			
Libereby certify that the above described materia	ls are non-hazardous	wastes as defined by	40 CFR Part 261 o	any
applicable state law, have been fully and accurat for transportation according to applicable regulat	tely described, classif tions.	fied and packaged and	d are in proper cond	tion
Walles Hinson		Leland.	anno	6.4-08
Generator Authorized Agent Name		Signature		Date Shipped
Transporter Name: HOANTIC WATE	ARVIELS	DOT#:	9954131	9.P
Address: HOLEN GA 31	122 ·	Truck Number:	104	
DAULD BRIGES	¥ ·	Dr -	it.	7 JUNE LA
Name of Authorized Agent		Signature		Date Delivered
Site Name: SUILKILK	hin Fill			
Address: Address:				
I hereby acknowledge receipt of the above desc				
Name of Authorized Agent	VIII-15	Signature		Date Received

				0203
	-HAZARDOUS WA	STE MANIFEST	***;	
	il >		+H+GAY	2100227
Generator Name: (1) ALENG HEIMIC ALEN				
Billing Address: ATLANAC WHOTE SERACE				4.32
Site Address: 106 Million Cince	EIDE (AS, SA	467 11/ 90-76 54	2,14(7)	
County of Origin: CHANDANN		Phone:	112313 12	26
Description of Waste	Total Quantity	Profile Number	A 01 Unit of Measure	Container Type
SCIL/ DEBRIS		1011326A		
50.00 00000				
Special Handling Instructions				1
Special Handling Instructions I hereby certify that the above described mate applicable state law, have been fully and acce for transportation according to applicable regu Manual Manual Generator Authorized Agent Name	erials are non-hazardou urately described, class ulations.	s wastes as defined b	y 40 CFR Part 261 o	or any
I hereby certify that the above described mate applicable state law, have been fully and acci for transportation according to applicable regu	erials are non-hazardou urately described, class ulations.	s wastes as defined by ified and packaged an	y 40 CFR Part 261 o	irtion
I hereby certify that the above described mate applicable state law, have been fully and according to applicable regu- for transportation according to applicable regu- Magnan Hangon Generator Authorized Agent Name RANSPORTER	erials are non-hazardou urately described, class ulations.	s wastes as defined by ified and packaged an <u>Mayne</u> Signature	y 40 CFR Part 261 o	In any Ition <u>6-9-08</u> Date Shipped
I hereby certify that the above described mate applicable state law, have been fully and according to applicable regu- for transportation according to applicable regu- Magnan Hangon Generator Authorized Agent Name RANSPORTER	erials are non-hazardou urately described, class ulations.	s wastes as defined by ified and packaged an <u>Mayne</u> Signature	y 40 CFR Part 261 o d are in proper cond	In any Ition <u>6-9-08</u> Date Shipped
I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu- Magna Hinton Generator Authorized Agent Name	erials are non-hazardou urately described, class ulations.	s wastes as defined by ified and packaged an <u>Magaza</u> Signature	y 40 CFR Part 261 o d are in proper cond	Intion Intion 6-9-08 Date Shipped
I hereby certify that the above described mate applicable state law, have been fully and according to applicable regu- for transportation according to applicable regu- Magnan Hangon Generator Authorized Agent Name RANSPORTER	erials are non-hazardou urately described, class ulations.	s wastes as defined by ified and packaged an <u>Magaza</u> Signature	y 40 CFR Part 261 o d are in proper cond	In any Ition <u>6-9-08</u> Date Shipped
I hereby certify that the above described mate applicable state law, have been fully and acci- for transportation according to applicable regu- Manual Contract of the applicable regu- Generator Authorized Agent Name Generator Authorized Agent Name RANSPORTER Transporter Name: <u>Manual Automation</u> 125 Brink Manual Address: <u>France Manual</u>	erials are non-hazardou urately described, class ulations.	s wastes as defined by ified and packaged an <u>Magaza</u> Signature DOT#	y 40 CFR Part 261 o d are in proper cond	The shipped
I hereby certify that the above described mate applicable state law, have been fully and acci- for transportation according to applicable regu- Manual Agent Name Generator Authorized Agent Name RANSPORTER Transporter Name: <u>Min Min Charter</u> 125 Brink Manual Address: <u>Min Min Charter</u> Name of Authorized Agent	E Securces	s wastes as defined by ified and packaged an <u>Magaza</u> Signature DOT#	y 40 CFR Part 261 o d are in proper cond	The shipped

		1		0175
Waste services	ZARDOUS WAS	-	V	
Generator Name: US Army Huntz Billing Address: Manage Mare Mare	5, 125 6 Frid	MONTE PE	Frence Ch	+ 3132.2
Site Address: 106 Macanthur C County of Origin: Chatham			912 315	
Description of Waste	Total Quantity			Container Type
DOILIUROFIS				
	2		1	
Special Handling Instructions	*		1	
I hereby certify that the above described materials	are pop bazardous	wastes as defined by	40 CER Part 261 c	or any
applicable state law, have been fully and accurate for transportation according to applicable regulation Wayn Himson Generator Authorized Agent Name	ly described, classifions.	ed and packaged and <u> <u> </u> </u>	are in proper cond	Date Shipped
TRANSPORTER Transporter Name: Michaele Michaele Address: Michaele Michaele DAMID C Reselle			995413 104 7: 07	TIME OS
Name of Authorized Agent DISPOSAL FACILITY Site Name: Systematic Land	it the home	Signature		Date Delivered
Site Name: SCIENCIC TANK Commence of the above description of the above description	11112		*	
Name of Authorized Agent	VIII-17	Signature		Date Received

Able Onininal Vallow - Transnorter Disk - Dissocial Earlie Cold - Customer

				0219
Atlantic NON-H	AZARDOUS WA	STE MANIFEST		
Generator Name: <u>IC Harry - Harrie Alexing</u> Billing Address: <u>Manager Mana Charce</u>				2100227
Site Address: 100-1000 Active Charles				
County of Origin:			H	
Description of Waste		Profile Number	Unit of Measure	Container Type
all fixing	10	1 11 - 27	× .	111-34
Special Handling Instructions	e e (	* *		
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat	ils are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and	d are in proper cond	or any lition
I hereby certify that the above described materia applicable state law, have been fully and accurate	ils are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and	40 CFR Part 261 o d are in proper cond	or any lition Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat Mayna Hanson Generator Authorized Agent Name	ils are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and	d are in proper cond	lition
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat Mayna Hanson Generator Authorized Agent Name	Is are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and Uau	d are in proper cond	lition Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat Mayna Magna Generator Authorized Agent Name	Is are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and Uagaan Signature	d are in proper cond	Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat Generator Authorized Agent Name CANSPORTER Transporter Name:	Is are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and Uagaan Signature	d are in proper cond	Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accurate for transportation according to applicable regulate Generator Authorized Agent Name CANSPORTER Transporter Name: Address: Addre	Is are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and Signature DOT#: Truck Number:	d are in proper cond	Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate Generator Authorized Agent Name CANSPORTER Transporter Name: Address: Add	Is are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and Signature DOT#: Truck Number:	d are in proper cond	Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate Generator Authorized Agent Name CANSPORTER Transporter Name:	ils are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and Signature DOT#: Truck Number:	d are in proper cond	Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate Generator Authorized Agent Name CANSPORTER Transporter Name: Address: Ad	ils are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and Signature DOT#: Truck Number:	d are in proper cond	Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulated. Generator Authorized Agent Name  RANSPORTER  Transporter Name:  Address:  Name of Authorized Agent  Site Name:  Address:  Address:	ils are non-hazardou tely described, class tions.	s wastes as defined by ified and packaged and Signature DOT#: Truck Number:	d are in proper cond	Date Shipped

				0201
ste services	ON-HAZARDOUS WAS	STE MANIFEST		
senerator Name: <u>11_ Fighty_Fighters</u> A	KELJ MIRTHELD	US EPA ID#	HA-GAYO	2/00227
Billing Address: Dreamance (DMTE 2000				2
Site Address: 106 MARCANTINER CR	LUDE LES IN			
County of Origin:	unty of Origin:		112.315 423	2.6
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Typ
SLAL/ LETANS	1	101132 GA	Ť.	-
Special Handling Instructions				n - + + +
I hereby certify that the above described mapplicable state law, have been fully and a	naterials are non-hazardous	s wastes as defined by	y 40 CFR Part 261 o	r any
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable m	naterials are non-hazardous accurately described, classi regulations.	s wastes as defined by	y 40 CFR Part 261 o	r any ition 6-9-c
I hereby certify that the above described mapplicable state law, have been fully and a	naterials are non-hazardous accurately described, classi regulations.	s wastes as defined by	y 40 CFR Part 261 o	r any
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable m	naterials are non-hazardous accurately described, classi regulations.	s wastes as defined by fied and packaged an	y 40 CFR Part 261 o	r any ition 6-9-c
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable m Mayh Hum Generator Authorized Agent Name	naterials are non-hazardous accurately described, classi regulations.	s wastes as defined by fied and packaged an <u>May</u> Signature	y 40 CFR Part 261 o	r any ition <u>G-Y-C</u> Date Shipped
I hereby certify that the above described mapplicable state law, have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully and a for transportation according to applicable may have been fully according to a for transportation according to a for tran	Actional and non-hazardous accurately described, classi regulations.	s wastes as defined by fied and packaged an <u>Uduy</u> Signature DOT#	y 40 CFR Part 261 o d are in proper cond	r any ition <u>G-M-C</u> Date Shipped
I hereby certify that the above described mapplicable state law, have been fully and a for transportation according to applicable mapplicable mapplica	Actional and non-hazardous accurately described, classi regulations.	s wastes as defined by fied and packaged an <u>Uduy</u> Signature DOT#	y 40 CFR Part 261 o d are in proper cond	r any ition <u>G-M-C</u> Date Shipped
I hereby certify that the above described mapplicable state law, have been fully and a for transportation according to applicable mapplicable mapplica	Actional and non-hazardous accurately described, classi regulations.	s wastes as defined by fied and packaged an <u>Uduy</u> Signature DOT#	y 40 CFR Part 261 o d are in proper cond	r any ition <u>G-M-C</u> Date Shipped
I hereby certify that the above described in applicable state law, have been fully and a for transportation according to applicable in Wayhard and applicable in Mayhard and applicable in Mayhard app	Anterials are non-hazardous accurately described, classi regulations.	s wastes as defined by fied and packaged an <u>Uuuu</u> Signature DOT#	y 40 CFR Part 261 o d are in proper cond	r any ition <u>G-M-C</u> Date Shipped
I hereby certify that the above described in applicable state law, have been fully and a for transportation according to applicable in May A. J.	Anterials are non-hazardous accurately described, classi regulations.	s wastes as defined by fied and packaged an <u>Uuuu</u> Signature DOT#	y 40 CFR Part 261 o d are in proper cond	r any ition <u>G-M-C</u> Date Shipped
I hereby certify that the above described in applicable state law, have been fully and a for transportation according to applicable in Wayhow Hand Generator Authorized Agent Name Address: Internet SPOSAL FACILITY Site Name: Supervise Address:		s wastes as defined by fied and packaged an <u>Uuuu</u> Signature DOT#	y 40 CFR Part 261 o d are in proper cond	r any ition <u>G-M-C</u> Date Shipped

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Contraction of the second seco	800 (Jan 2006) - Sharrin (2006) (Sh	an a		0217
Atlantic NON-HAZ	ARDOUS WAS	TE MANIFEST		
GENERATOR				
Generator Name: US ARALY - HUMERAKM	MIKFIELD	US EPA ID#:	HA GAS	121002273
Billing Address: ATLANTIC WHETE SERVICE		E MENDERD L	* ROLER	GA 31322
Site Address: 106 Machemark Cre. L				
	he bigge			24.
County of Origin: CHARTANK		Phone:	5102 50 47	- he for a start of the start o
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Saulary	1.	1.C.137.6A	V.	LI VI
2) the f bat failed				
I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations	re non-hazardous described, classif	wastes as defined by	40 CFR Part 261 o	r any
Way Hinson		Liby- 10	firme	
Generator Authorized Agent Name		Signature		Date Shipped
Transporter Name: Manual (MATE A) Transporter Name: Manual (MATE A) TOB B PRE FUNCTION Address: Market EA 213	CHILES CHIL 22	DOT#: Truck Number:	1.0.000	1 - DD - MR
Name of Authorized Agent		Signature	ame	Date Delivered
DISPOSAL FACILITY				
Site Name: SoreRior Char Address: Address: Address:	CKEN	,		
¢		01-matter		Pate Bassing d
Name of Authorized Agent	VIII-20	Signature		Date Received

4. 4

				0202
aste services	AZARDOUS WAS	STE MANIFEST		
Senerator Name: 11. 1500 - HENTER ANDER IN	FIELD	US EPA ID#:	HA-GAS	2100227
Billing Address: ATLANTIC WATTE DEN UKES	123 B MIR Me	RELEASER PER	ICH CH SISS	
Site Address: 106 parce Alcontrate Pression	DE LIS, JAN	WHATTE CH STA	14	
County of Origin: (1) (A) (Day) (A)		Phone:	11.315.42	26
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SEU / DEPARTS	4	1011 22 CA		incl
ALL / ILLINGS				
Special Handling Instructions	a s a	1.4.	* . *	5
I hereby certify that the above described material applicable state law, have been fully and accurat for transportation according to applicable regulat	ls are non-hazardou: lely described, classi ions.	s wastes as defined by ified and packaged an	40 CFR Part 261 o	r any ition 6-4-08
I hereby certify that the above described material applicable state law, have been fully and accurat for transportation according to applicable regulat	ls are non-hazardou: lely described, classi ions.	s wastes as defined by	40 CFR Part 261 of d are in proper cond	rany
I hereby certify that the above described material applicable state law, have been fully and accurat for transportation according to applicable regulat Manual Sources Generator Authórized Agent Name	ls are non-hazardou: lely described, classi ions.	s wastes as defined by ified and packaged an <u>May</u> Signature	40 CFR Part 261 of d are in proper cond	r any ition 6-7-08 Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate Manual Manual Sources Generator Authorized Agent Name CANSPORTER Transporter Name: According to Applicable regulate Manual Sources Transporter Name: According to Applicable regulate Manual Sources Transporter Name: According to Applicable regulate Manual Sources Manual So	Is are non-hazardou: lely described, classi ions.	s wastes as defined by ified and packaged an <u>May</u> Signature	40 CFR Part 261 o d are in proper cond dare	r any ition 6-7-08 Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate Manual Manual Manual Generator Authórized Agent Name RANSPORTER Transporter Name: According to Address: Manual Manual Manual Manual Address: Manual Manual Manual Manual Manual Manual M	Is are non-hazardou: lely described, classi ions.	s wastes as defined by fied and packaged an Signature DOT#	40 CFR Part 261 of d are in proper cond	r any ition 6-7-08 Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurat for transportation according to applicable regulat Generator Authórized Agent Name CANSPORTER Transporter Name: Account Material Address: Account Action Address: Account Action Material Material Data Data Science	Is are non-hazardou: lely described, classi ions.	s wastes as defined by ified and packaged an <u>May</u> Signature	40 CFR Part 261 of d are in proper cond	Tany ition 6-9-08 Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate Manual Manual Manual Generator Authorized Agent Name RANSPORTER Transporter Name: Account Manual Address: Address: Address: Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manu		s wastes as defined by fied and packaged an Signature DOT#	40 CFR Part 261 of d are in proper cond	Tany ition 6-9-08 Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulat Manual Manual Manual Generator Authorized Agent Name CANSPORTER Transporter Name: Account Market Manual Manual Address: Manual Market Manual Manual Name of Authorized Agent ISPOSAL FACILITY Site Name: Concurrent		s wastes as defined by fied and packaged an Signature DOT#	40 CFR Part 261 of d are in proper cond	Tany ition 6-9-08 Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate Manual Manual Manual Generator Authorized Agent Name RANSPORTER Transporter Name: Account Manual Address: Address: Address: Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manu	Is are non-hazardous lety described, classi ions.	s wastes as defined by fied and packaged an Signature DOT#	40 CFR Part 261 of d are in proper cond	Tany ition 6-9-08 Date Shipped

i ha				0209	
Atlantic NON-HAZ	ARDOUS WAS	TE MANIFEST			*
GENERATOR					4
Generator Name:	and	US EPA ID#:	++ GA 42	100227	1
Billing Address:		and Harash	14 1322		
Site Address:					
County of Origin:		Phone:			-
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type	
		- N		in the	
					1
					11
	-4	1	14.4 (%) - 1 100		
I hereby certify that the above described materials a	are non-hazardous	wastes as defined by	40 CFR Part 261 or	any	
applicable state law, have been fully and accurately	described, classifi	ed and packaged and	are in proper condi	tion	-
for transportation according to applicable regulation		1.1	11-	1-4-15	2
Generator Authorized Agent Name		Signature	10-2-	Date Shipped	-
TRANSPORTER					_
		DOT	A P Lais	Stat .	
Transporter Name:				-	
Address:		Truck Number			
			sout the		_
Name of Authorized Agent		Signature		Date Delivered	
DISPOSAL FACILITY					
Site Name:					
Address:					
I hereby acknowledge receipt of the above describe	ed materials.				
Thereby authowiedge receipt of the above describe		15		M. 1/ 15	
Name of Authorized Agent		Signature	1	Date Received	-
Office and the second s	VIII-22				
the feat is					_

				0207
Atlantic NON-HA	ZARDOUS WAS			
Generator Name:	MILINIA	US EPA ID#:	H-GAY	210022733
Billing Address: And Anne MARE SERVICE	5.1256 8.	C THEREFORE	YOULL LA	3312
Site Address: ICLO MACILIANE CR BLD	te ters places	MARTI LA 3140	1	
County of Origin: CHATHAN			912 315 47	
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
John / We Kars	1-	101132 EA		Tricest
Special Handling Instructions				
	+.6	V		5
I hereby certify that the above described materials applicable state law, have been fully and accurate for transportation according to applicable regulation	ely described, classi	fied and packaged an	d are in proper condi	tion
Wayne Hinson		Signature	12-	G-F-OF Date Shipped
Generator Authorized Agent Name		Signature		Care onlyped
TRANSPORTER				
Transporter Name:	134	DOT#	: 40 5413 GA	<u>l</u>
Address:		Truck Number	109	
DAUSD RRIGES			ing	6-6-08
Name of Authorized Agent		Signature	v	Date Delivered
DISPOSAL FACILITY				
Site Name:	C L I L			
Address:	- KA	6.		
I hereby acknowledge receipt of the above descr	ribed materials.			
Name of Authorized Agent	VIII-23	Signature		Date Received
itunio or rischene - gent	v 111-23			

the Adalant Vallan Tenasander Disk Diseasal Eastille, Cold Customer

	an na managana ang sang sang sang sang sang san			0233
Atlantic NOR	N-HAZARDOUS WAS	TE MANIFEST		
Generator Name: MS ARMY - HUMER A			1	2/002273
Site Address: 100 MAC ACTIVE CE			1 SHOT	.+
County of Origin:			912 315 122	16
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
En ALTERIA		113264		The A
. Milling includes				
	9			
			-	
I hereby certify that the above described ma	terials are non-hazardous	wastes as defined by	40 CFR Part 261 or	any
applicable state law, have been fully and ac for transportation according to applicable re-	curately described, classif gulations.	hed and packaged an	a are in proper condi	tion
Navne Hinso	N	liky,	Him	6-4-08
Generator Authorized Agent Name		Signature		Date Shipped
TRANSPORTER Transporter Name:	SIZLZ		19 71	
5 D	CAIN	*		2. 2. 1.
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY Site Name: SOFORIDE Bear LITTU Address: AVIDATION		) *		-
I hereby acknowledge receipt of the above	described materials.			
		Signature		Date Received
Name of Authorized Agent	VIII-24	orginatoro		

10 m 13	1			0200
Atlantic NON-H	AZARDOUS WAS	TE MANIFEST		
ENERATOR				
Generator Name: 11: Alena - Hannis Adam	4 AIRFALLO	US EPA ID#:	AHA GA	4210022
Billing Address: Wing C Prodect 15 151	in them	Name on	4322	
Site Address: 1 Company State	nonunit	COP1. 43		
County of Origin:		Phone:	112 115 4	E. la
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SOIL / DEBKIS	1-	ICH 32 GA		St YI
Special Handling Instructions			4	an an ginara an an
	ately described, classif	wastes as defined by ied and packaged and	40 CFR Part 261 o d are in proper cond	r any
I hereby certify that the above described materia applicable state law, have been fully and accura	ately described, classif ations.	wastes as defined by	40 CFR Part 261 o d are in proper cond	r any
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regula Manual Generator Authorized Agent Name RANSPORTER Transporter Name: <u>Manual Harter</u> Case the Human Address: <u>Law Harter</u>	Atoms.	wastes as defined by ied and packaged and Signature DOT#	40 CFR Part 261 o d are in proper cond	r any lition 6-9-08 Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regula Generator Authorized Agent Name RANSPORTER Transporter Name:	Atoms.	wastes as defined by fied and packaged and Signature	40 CFR Part 261 of d are in proper cond	r any lition <u>6-7-08</u> Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regula Manual Andreas RANSPORTER Transporter Name:		wastes as defined by ied and packaged and Signature DOT#	40 CFR Part 261 of d are in proper cond	r any lition 6-9-08 Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regula Manual Andreas TRANSPORTER Transporter Name: Andreas Address: Address: Address Name of Authorized Agent Name of Authorized Agent DISPOSAL FACILITY		wastes as defined by ied and packaged and Signature DOT#	40 CFR Part 261 of d are in proper cond	r any lition 6-9-08 Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regula Manual Andreas RANSPORTER Transporter Name:		wastes as defined by ied and packaged and Signature DOT#	40 CFR Part 261 of d are in proper cond	r any lition 6-9-08 Date Shipped

Altiantic Severator Sever	479
Generator Name:       US EPA 10#:       HARCAMANELLED       US EPA 10#:       HARCAMAIL         Billing Address:       Do A the Address:       Description of Maste       Product (A)       Phone:       Contact (A)         County of Origin:       Immand       Phone:       Gla 2:::       Phone:       Gla 2:::       Contact (A)         Description of Waste       Total Quantity       Profile Number       Unit of Measure       Contact (A)         Cuint / ECANS       Immand       Immand       Profile Number       Unit of Measure       Contact (A)         Special Handling Instructions       Immand       Immand       Immand       Immand       Immand         Immand       Immand       Immand       Immand       Immand       Immand       Immand         Special Handling Instructions       Immand       <	
Site Address:       Image: Control of Origin:       Phone:       Generator       Address:       Control of Origin:       Profile Number       Unit of Measure       Contained         Description of Waste       Total Quantity       Profile Number       Unit of Measure       Contained         Coundy of Origin:       Coundy of Origin:       Coundy of Measure       Contained       Contained       Contained         Description of Waste       Total Quantity       Profile Number       Unit of Measure       Contained         Coundy of Origin:       Coundy of Measure       Total Quantity       Profile Number       Unit of Measure       Contained         Coundy of Origin:       Coundy of Measure       Coundy of Measure       Contained       Contained       Contained         Coundy of Measure       Coundy of Measure       Coundy of Measure       Coundy of Measure       Contained         Special Handling Instructions       Special Handling Instructions       Coundy of CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.       Coundy of Measure       Coundy of Measure         Cenerator Authorized Agent Name       Signature       DoT#       Coundy of Measure       Coundy of Measure         Name of Authorized Agent       Signature	
County of Origin:	322
Description of Waste       Total Quantity       Profile Number       Unit of Measure       Conta	
Description of Waste       Total Quantity       Profile Number       Unit of Measure       Conta         Image: A contained of the source of the so	
Interest certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 281 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.         Generator Authorized Agent Name       Signature         DDT#:	ner Type
Special Handling Instructions         I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 281 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.         Wayne Hinson       Signature         Generator Authorized Agent Name       DOT#:	1
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.	
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.	
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.	
Address:     DOT#:       Name of Authorized Agent     Signature       Date De       Site Name:       Address:	
Construction     Construction     Construction       Address:	inned
Transporter Name:     DOT#:       Address:     Truck Number:       Name of Authorized Agent     Signature       Date De       ISPOSAL FACILITY       Site Name:       Address:	pped
Address:     Truck Number:     //       Name of Authorized Agent     Signature     Date Determine       ISPOSAL FACILITY     Site Name:     Address:       Address:     Address:     Address:	
Site Name: Louis A Address:	
Site Name: Louis A Address:	livered
Address:	ivered
Address: Austrian En Stars	
Address: A distance En 21409	
I hereby acknowledge receipt of the above described materials.	
Name of Authorized Agent VIII-26 Signature Date Re	ceived

i			0205
Atlantic NON-HAZ	ARDOUS WAS	TE MANIFEST	
Generator Name: 1. 1 ANT - Th MITH MENUT			GA421002273
Site Address: ICC MACHEMUK CL. PLPS			
County of Origin: (1))(()))	,	Phone:	1, 1226
Description of Waste	Total Quantity	Profile Number Unit of	
Second Location of		101132 GA	
XX- WARKS	t		
I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations	re non-hazardous described, classif s.	fied and packaged and are in pr	Part 261 or any roper condition
Generator Authorized Agent Name		Signature	Date Shipped
TRANSPORTER Transporter Name: <u>Michanic White Server</u> TSS Print Michael Server Address: <u>Frank (A 2005)</u> <u>Marin C 201665 TR.</u> Name of Authorized Agent		DOT#: <u>995</u> Truck Number: <u>109</u>	
DISPOSAL FACILITY			
Site Name: A contract of the above describe	111		
Name of Authorized Agent	VIII-27	Signature	Date Received

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				0480
tlantic NON-HAZA	RDOUS WAS	TE MANIFEST		
	A		JAC24	2100227
Billing Address: ATLANTIC WASTE SERVICES				
				1 21214
Site Address: 106 HACARTWRCR BL	06 615			~~~~
County of Origin: CHATHAM		Phone:	4123154	229 4226
Description of Waste	Total Quantity	Profile Number	054-01 Unit of Measure	Container Type
SOIL/DEBRIS	1	101132, EA	4.0	The state
	*			
I hereby certify that the above described materials are	non-hazardous		40 CFR Part 261 or	rany
	non-hazardous	wastes as defined by	40 CFR Part 261 or	rany
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations.	non-hazardous	wastes as defined by ied and packaged and	40 CFR Part 261 or	rany tion
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations.	non-hazardous	wastes as defined by	40 CFR Part 261 or	rany
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations. Waya Auroson Generator Authonized Agent Name	non-hazardous escribed, classif	wastes as defined by ied and packaged and <u>Margan</u> Signature	40 CFR Part 261 or	nany ition Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations.	non-hazardous escribed, classif	wastes as defined by ied and packaged and <u>Margan</u> Signature	40 CFR Part 261 or are in proper condi	nany ition Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations. Generator Authorized Agent Name ANSPORTER Transporter Name:	non-hazardous escribed, classif	wastes as defined by ied and packaged and <u>Manual Signature</u> DOT#: Truck Number:	40 CFR Part 261 or are in proper condi	nany ition Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations. Generator Authonized Agent Name ANSPORTER Transporter Name: Address: Mame of Authorized Agent	non-hazardous escribed, classif	wastes as defined by ied and packaged and <u>Manual</u> Signature DOT#:	40 CFR Part 261 or are in proper condi	nany ition Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations. Generator Authorized Agent Name ANSPORTER Transporter Name: Address:	non-hazardous escribed, classif	wastes as defined by ied and packaged and <u>Manual Signature</u> DOT#: Truck Number:	40 CFR Part 261 or are in proper condi	Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations. Generator Authonized Agent Name AMSPORTER Transporter Name: Address: Name of Authorized Agent SPOSAL FACILITY Site Name:	non-hazardous escribed, classif	wastes as defined by ied and packaged and <u>Manual Signature</u> DOT#: Truck Number:	40 CFR Part 261 or are in proper condi	Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations. Way A Masson Generator Authorized Agent Name ANSPORTER Transporter Name: Address:	non-hazardous escribed, classif	wastes as defined by ied and packaged and <u>Manual Signature</u> DOT#: Truck Number:	40 CFR Part 261 or are in proper condi	n any tion Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately de for transportation according to applicable regulations. Generator Authonized Agent Name ANSPORTER Transporter Name: Address: Name of Authorized Agent SPOSAL FACILITY Site Name:	non-hazardous escribed, classif	wastes as defined by ied and packaged and <u>Manual Signature</u> DOT#: Truck Number:	40 CFR Part 261 or are in proper condi	n any tion Date Shipped

				0206
SENERATOR	AZARDOUS WAS		× 1.	
Generator Name: 15 ARMY - HUNDER HE	My MIRFIELD	US EPA ID#:	NA GA	42100227
Billing Address: ATLANTIC WASTE SERVIC				
Site Address: 100 MAC ARTALR CR.	BLDG. LAS	SAVANNAM	611 3141	<u> NC</u>
County of Origin: (144)		Phone:	912 3154	226
Description of Waste	Total Quantity	Profile Number	05054-01 Unit of Measure	Container Type
SOIL/LEPRIS	-	K11326A		
Special Handling Instructions				
	als are non-hazardou: tely described, classi	s wastes as defined by fied and packaged and	40 CFR Part 261 c	lition
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regular	als are non-hazardou: tely described, classi tions.	s wastes as defined by	40 CFR Part 261 c	or any lition <u>6-4-08</u> Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regular	als are non-hazardou: itely described, classi tions.	s wastes as defined by fied and packaged and Uby Signature	40 CFR Part 261 c d are in proper cond	6-4.08
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regular Generator Authorized Agent Name TRANSPORTER Transporter Name: Market Address: PICLAR (1) 3	als are non-hazardou: itely described, classi tions.	s wastes as defined by fied and packaged and Signature DOT#	40 CFR Part 261 c d are in proper cond	Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regular Generator Authorized Agent Name TRANSPORTER Transporter Name: How Material Address: House Agent	Als are non-hazardous Itely described, classi tions. SON SON SON SON SON SON SON SON	s wastes as defined by fied and packaged and Signature DOT#	40 CFR Part 261 c d are in proper cond	Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accura for transportation according to applicable regular Generator Authorized Agent Name TRANSPORTER Transporter Name:	Als are non-hazardous Itely described, classi tions. SON SON SON SON SON SON SON SON	s wastes as defined by fied and packaged and Signature DOT#	40 CFR Part 261 c d are in proper cond	Date Shipped

	an a			0234
Atlantic NON Senerator	I-HAZARDOUS WAS	TE MANIFEST		
Generator Name: <u>II II A Sterning Monagent</u>	ICES, 1250 PINE	MERITIN DE P	COUR GAT	12/002273
Site Address: <u>IC() MAX ACTIA &amp; CK</u> County of Origin: <u>CINATIANES</u>			ALCAN A	126
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SOIL/MARINS		1-11-22-64		
			,	
Special Handling Instructions				
			40 CER Part 261 of	any
I hereby certify that the above described mat applicable state law, have been fully and acc for transportation according to applicable reg	curately described, classif	ied and packaged and	are in proper condi	tion
Generator Authorized Agent Name	-	Ubey / Signature	for	G-Y-GS Date Shipped
Transporter Name:			29 412	
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY Site Name: SUPERIOK A Sold Conflict Address: SHAREMAN I hereby acknowledge receipt of the above of	EN 31419			;
t iii		6 174	1-1-1	Data Bassing d
Name of Authorized Agent	VIII-30	Signature		Date Received

1111 11 51

aste services	ZARDOUS WAS	TE MANIFEST		
NERATOR			-110-0	421002
Generator Name: US Manup - 1 CHIER Marth				1210000
Billing Address: MULTURE RASE Second	1200 Minit	hoters in the	CILK ER.	11220
Site Address: 106 MINCARTHUR CR. 140	G 615 SAN	CHANNER GH	PARA	
County of Origin: Chartenan		Phone:	912 315 4	226
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SOIL /DEBRIS	15	101132-64	yds	30491 matal
Special Handling Instructions				-
	are non-hazardous ly described, classif	wastes as defined by	40 CFR Part 261 or	rany
I hereby certify that the above described materials applicable state law, have been fully and accurated	are non-hazardous ly described, classif ns.	wastes as defined by	40 CFR Part 261 or	any tion <u>G-M-S</u> Date Shipped
I hereby certify that the above described materials applicable state law, have been fully and accurated for transportation according to applicable regulation Maying Humson Generator Authorized Agent Name	are non-hazardous ly described, classif ns.	wastes as defined by ied and packaged and Magazine Signature	40 CFR Part 261 or	G-Y-of Date Shipped
I hereby certify that the above described materials applicable state law, have been fully and accurated for transportation according to applicable regulation May the Address CANSPORTER Transporter Name: Address:	are non-hazardous ly described, classif ns.	wastes as defined by ied and packaged and <u>June</u> Signature DOT#: Truck Number:	40 CFR Part 261 or d are in proper condi	tion <u>G-Y-J</u> Date Shipped
I hereby certify that the above described materials applicable state law, have been fully and accuratel for transportation according to applicable regulation Generator Authorized Agent Name CANSPORTER Transporter Name: Address: Mame of Authorized Agent	are non-hazardous ly described, classif ns.	wastes as defined by ied and packaged and Magazine Signature	40 CFR Part 261 or d are in proper condi	C-1-05 Date Shipped
I hereby certify that the above described materials applicable state law, have been fully and accurated for transportation according to applicable regulation May Alexander Mageria Generator Authorized Agent Name CANSPORTER Transporter Name: Address:	are non-hazardous ly described, classif ns.	wastes as defined by ied and packaged and <u>June</u> Signature DOT#: Truck Number:	40 CFR Part 261 or d are in proper condi	tion <u>G-Y-J</u> Date Shipped

				0197
A 11	AZARDOUS WAS	TE MANIFEST		
Generator Name: 112 Mary - MUMAR ARMY	Aminio	US EPA ID#:	HA GAY	210022735
Billing Address: ARMANIC WASTE SANKES		AUDIO DE TICU	r GA BR	7.2
Site Address: ICG MINC HRITER CR. CO.D.				
County of Origin: CHANNAR			112 315 4	226
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SUL /DEBRIS	15	101132 GA	yds	30 yas1
			/	
-				
Special Handling Instructions				
I hereby certify that the above described materials applicable state law, have been fully and accurate for transportation according to applicable regulation wayne Hinson Generator Authorized Agent Name	s are non-hazardous ely described, classif	wastes as defined by 4 fied and packaged and a <u>Magaza</u> Signature	0 CFR Part 261 or	any
TRANSPORTER				
Transporter Name: Manie Whist Address: Mark Children Name of Authorized Agent	NO FIRM	DOT#: _ Truck Number: _ 2004 Signature	103 103	G-11-02 Date Delivered
DISPOSAL FACILITY			The state of	
Site Name: DORLACER CA Address: I hereby acknowledge receipt of the above descri	131119			8
Name of Authorized Agent	VIII-32	Signature		Date Received

		annahasang, Karparanang, s	landa para propio	0196
waste services	ZARDOUS WAS	TE MANIFEST		
Generator Name: (Chicking - House Rose	Y HIRTHIN	US EPA ID#:	GA	12/0022733
Billing Address:		HOWEN YOU	1	1322
Site Address: 1000 MACAKTHUR CH. HU	DE LOUS STONE	WARAN, 6H 3	rope	
County of Origin: CINITING	t	Phone:	112 315 4	226
Description of Waste	Total Quantity	Profile Number	C 54 - CI Unit of Measure	Container Type
AN ADDRES	15	101132 GA	yds	30 YO Metal
Special Handling Instructions				
a an				ut hereit - et
			i	
I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulation	described, classifi	ed and packaged and	are in proper condit	
Generator Authorized Agent Name		Signature		Date Shipped
TRANSPORTER				
Transporter Name: <u>ALAMIC WINE AN</u>	11 three			
Address: <u>RECENCEA AMA</u>	2	Truck Number:		
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY				
Site Name: JUNTRICK LAND T				
Address: Savennenne, the savennenne, the savennenne, the savennenne, the savennenne, the savennennenne, the savennennennennennennennennennennennennenn				
I hereby acknowledge receipt of the above describe	ed materials.			
Name of Authorized Agent	VIII-33	Signature	6	Date Received
	v III-33			

				0198
Atlantic NON-HAZA	RDOUS WAS	TE MANIFEST		
Generator Name: 1 Pack of a Martine Martine 1900	CALL -	US EPA ID#	HT GAY2	1002273
Billing Address: Antonia Colorate Secondes 11	SE THE HU	see to steel	R GA 112	
Site Address: Internation for the Carlo				
County of Origin:			110 200 10	1.6
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
and a tare	15	IL WOLL GA	yds	30441
Special Handling Instructions				
I hereby certify that the above described materials and applicable state law, have been fully and accurately of for transportation according to applicable regulations.	e non-hazardous described, classif	wastes as defined by ied and packaged and	40 CFR Part 261 o	rany ition 6-9-08
I hereby certify that the above described materials are applicable state law, have been fully and accurately of for transportation according to applicable regulations.	e non-hazardous described, classif	wastes as defined by	40 CFR Part 261 o	r any
I hereby certify that the above described materials are applicable state law, have been fully and accurately of for transportation according to applicable regulations. Generator Authorized Agent Name RANSPORTER Transporter Name:	e non-hazardous described, classif	wastes as defined by ied and packaged and <u>UMy M</u> Signaturé	40 CFR Part 261 of d are in proper cond	rany ition 6-9-08 Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately of for transportation according to applicable regulations. Generator Authorized Agent Name	e non-hazardous described, classif	wastes as defined by ied and packaged and <u>UMU H</u> Signaturé DOT#: Truck Number:	40 CFR Part 261 of d are in proper cond	rany ition 6-9-08 Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately of for transportation according to applicable regulations. Generator Authorized Agent Name RANSPORTER Transporter Name: Address: Name of Authorized Agent	e non-hazardous described, classif	wastes as defined by ied and packaged and <u>Muy M</u> Signature DOT#:	40 CFR Part 261 of d are in proper cond	rany ition 6-9-08 Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately of for transportation according to applicable regulations. Generator Authorized Agent Name RANSPORTER Transporter Name: Address: Name of Authorized Agent	e non-hazardous described, classif	wastes as defined by ied and packaged and <u>UMU H</u> Signaturé DOT#: Truck Number:	40 CFR Part 261 of d are in proper cond	rany ition 6-9-08 Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately of for transportation according to applicable regulations. Generator Authorized Agent Name RANSPORTER Transporter Name: Address: Name of Authorized Agent	e non-hazardous described, classif	wastes as defined by ied and packaged and <u>UMU H</u> Signaturé DOT#: Truck Number:	40 CFR Part 261 of d are in proper cond	rany ition 6-9-08 Date Shipped
I hereby certify that the above described materials are applicable state law, have been fully and accurately of for transportation according to applicable regulations. Generator Authorized Agent Name RANSPORTER Transporter Name: Address: Name of Authorized Agent DISPOSAL FACILITY Site Name:	e non-hazardous described, classif	wastes as defined by ied and packaged and <u>UMy H4</u> Signaturé DOT#: Truck Number:	40 CFR Part 261 of d are in proper cond	rany ition 6-9-08 Date Shipped

Atlantic   Instruction	e constantino de la constant				0232
Acte Services         SiteRATOR         Generator Name:				à	QLUL
Size Services         Sixerator Name:	tlantic NON-HAZ	ARDOUS WAS	TE MANIFEST		
Generator Name:       US EPA ID#:       Generator Name:         Site Address:       Description of Waste       Total Quantity       Phone:       Internet State         Description of Waste       Total Quantity       Profile Number       Unit of Measure       Container Typ         Description of Waste       Total Quantity       Profile Number       Unit of Measure       Container Typ         Special Handling Instructions       IS       IS       IS       IS       IS       IS         I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.       Date Shipped         Cenerator Authorized Agent Name       Signature       Dotte:       102       104         Name of Authorized Agent Name       Signature       Date Shipped       Truck Number:       103       104         IsproSAL FACILITY       Site Name:       Signature       Date Delivered       116       Date Delivered         I hereby acknowledge receipt of the above described materials.       Truck Number:       103       14	aste services				
Billing Address:		در. <u>در</u>	US EPA ID#:	TE GAY2	2100227
County of Origin:       Phone:       Ph	1		ante. her	R (A 122	2.2
Description of Waste       Total Quantity       Profile Number       Unit of Measure       Container Type         Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type         Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type         Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type         Special Handling Instructions       Special Handling Instructions       Image: Antiper Container Type         Image: Antiper Container Type       Special Handling Instructions       Image: Antiper Container Type         Image: Antiper Container Type       Special Handling Instructions       Image: Antiper Container Type         Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type         Address: Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type         Address: Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type         Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type         Image: Antiper Container Type       Image: Antiper Container Type       Image: Antiper Container Type         Image: Antiper Container Type       Image: Antiper Container Type					
	County of Origin: Cranting and and a		Phone:	AV2 312 4	2.7 6
And	Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.		15	133 EH	vds	30YC/
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.				/	
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Generator Authorized Agent Name     Signature     Date Shipped       RANSPORTER       Transporter Name:     DOT#: 29541344       Address:     Truck Number:     103       Wboth     Caraway     Signature     Date Delivered       Name of Authorized Agent     Signature     Date Delivered       ISPOSAL FACILITY     Site Name:     Address:     Date Delivered       I hereby acknowledge receipt of the above described materials.     Signature     Date Beceived		1 - T F			
Transporter Name:     DOT#: 9954172 Mail       Address:     Truck Number:       Mame of Authorized Agent     Dot#: 103       Isposal FACILITY     Site Name:       Address:     Address:       I hereby acknowledge receipt of the above described materials.     Signature	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations	are non-hazardous described, classifi s.	wastes as defined by ed and packaged and	d are in proper cond	ition
Transporter Name:       DOT#: <u>995413</u> Address:       Truck Number: <u>Wanki</u> <u>Address</u> Name of Authorized Agent       Date Delivered         DISPOSAL FACILITY       Site Name:         Address:       Address:         I hereby acknowledge receipt of the above described materials.       Signature	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations	are non-hazardous described, classifi s.	wastes as defined by ed and packaged and	d are in proper cond	6-4-0
Address:     Truck Number:     103       Warme of Authorized Agent     Date Delivered       Isposal FACILITY     Site Name:       Address:     Address:       I hereby acknowledge receipt of the above described materials.	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations Mayna Hinson Generator Authorized Agent Name	are non-hazardous described, classifi s.	wastes as defined by ed and packaged and	d are in proper cond	6-4-0
Worker       Worker       Worker       Date Delivered         Name of Authorized Agent       Date Delivered       Date Delivered         ISPOSAL FACILITY       Site Name:       Date Delivered         Address:       Date Delivered       Date Delivered         I hereby acknowledge receipt of the above described materials.       Signature       Date Beceived	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations Mayna Hinson Generator Authorized Agent Name RANSPORTER	ire non-hazardous described, classifi s.	wastes as defined by ed and packaged and 	d are in proper condi	6-4-0
ISPOSAL FACILITY Site Name: Address: I hereby acknowledge receipt of the above described materials.	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations Mayna Hinson Generator Authorized Agent Name RANSPORTER Transporter Name:	ire non-hazardous described, classifi s.	wastes as defined by ed and packaged and Signature	995413	6-4-0
Site Name: Address: I hereby acknowledge receipt of the above described materials.	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations Mayna Hinson Generator Authorized Agent Name RANSPORTER Transporter Name: Address:	ire non-hazardous described, classifi s.	wastes as defined by ed and packaged and Signature	995413	6-4-0
Address: I hereby acknowledge receipt of the above described materials.	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations	ire non-hazardous described, classifi s.	wastes as defined by ed and packaged and Signature DOT# Truck Number	995413	C-Y-O Date Shipped
I hereby acknowledge receipt of the above described materials.	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations Generator Authorized Agent Name RANSPORTER Transporter Name: Address: Address: Mame of Authorized Agent ISPOSAL FACILITY	are non-hazardous described, classifi s.	wastes as defined by ed and packaged and Signature DOT# Truck Number	995413	C-Y-O Date Shipped
Signature Date Received	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations May Mined Generator Authorized Agent Name RANSPORTER Transporter Name:	ire non-hazardous described, classifi s.	wastes as defined by ed and packaged and Signature DOT# Truck Number	995413	C-Y-O Date Shipped
Name of Authorized Agent Date Received	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations.  Generator Authorized Agent Name	ire non-hazardous described, classifi s.	wastes as defined by ed and packaged and Signature DOT# Truck Number	995413	C-Y-O Date Shipped
	I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulations Generator Authorized Agent Name CANSPORTER CAMPAGE Address: Comparison of Authorized Agent Comparison of Authorized A	ire non-hazardous described, classifi s.	wastes as defined by ed and packaged and Signature DOT# Truck Number	995413	C-Y-O Date Shipped

Maine Original Vallow Transporter Bink - Disposal Facility Gold - Customer

	,			0231
Atlantic NON-HAZ	ARDOUS WAS	TE MANIFEST		
Generator Name: US Among - Herdiere Harry Billing Address: Manuel White the Actor I				21002273
Site Address: 1. V. Machine CR. Concel	chi Asiris	PDELC 113 1401		
County of Origin:		Phone:	MI Stalad	
Description of Waste	Total Quantity	Profile Number		Container Type
UNL HABRE	15	Kullet	yds	Boycol
	*			
I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulation	described, classi	fied and packaged and	are in proper condi	tion
Generator Authorized Agent Name	<u> </u>	Signature	1 - C. manual	Date Shipped
TRANSPORTER				
Address: March Contractor	· ·			
Name of Authorized Agent		Signature		Date Delivered
Name of Authorized Agent DISPOSAL FACILITY Site Name: Contract of the above describe	c	Signature		

E CONTRACTOR				0222
Atlantic NON-H	AZARDOUS WAS	TE MANIFEST		
	Muran	US EPA ID#	HA GAS	12/00 2273
Generator Name: <u>HEARING HEARING</u>				
Site Address: 106 MACARTHER CR.				1 21 Jaka
	DIDE CON			7.K
County of Origin: <u>CIUNTUAN</u>			4123342	
Description of Waste	Total Quantity		Unit of Measure	Container Type
LIL/LLOKIS	15	101132.64	vds	30yd motal
A 16 / Internet			,	
Special Handling Instructions				
Special Handling Instructions		21 - 200 2 - 1 - 1 - 2		
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat	Is are non-hazardous tely described, classif	wastes as defined by	40 CFR Part 261 or	rany
I hereby certify that the above described materia applicable state law, have been fully and accurate	Is are non-hazardous tely described, classif	wastes as defined by	40 CFR Part 261 or	r any ition Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat	Is are non-hazardous tely described, classif tions.	wastes as defined by ied and packaged and Magazine Signature	40 CFR Part 261 or d are in proper condi	Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accurat for transportation according to applicable regulat Generator Authorized Agent Name TRANSPORTER Transporter Name: Address:	Is are non-hazardous tely described, classif tions.	wastes as defined by ied and packaged and Uuuuu Signature DOT#: Truck Number:	40 CFR Part 261 or d are in proper condi	Date Shipped
I hereby certify that the above described materia applicable state law, have been fully and accurate for transportation according to applicable regulate Generator Authorized Agent Name TRANSPORTER Transporter Name:	Is are non-hazardous tely described, classif tions.	wastes as defined by ied and packaged and Magazine Signature	40 CFR Part 261 or d are in proper condi	Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate Address: Transporter Name: Address: Mame of Authorized Agent DISPOSAL FACILITY	Is are non-hazardous tely described, classif tions.	wastes as defined by ied and packaged and Uuuuu Signature DOT#: Truck Number:	40 CFR Part 261 or d are in proper condi	Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate	Is are non-hazardous tely described, classif tions.	wastes as defined by ied and packaged and Uuuuu Signature DOT#: Truck Number:	40 CFR Part 261 or d are in proper condi	Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate	Is are non-hazardous tely described, classif tions.	wastes as defined by ied and packaged and Uuuuu Signature DOT#: Truck Number:	40 CFR Part 261 or d are in proper condi	Date Shipped
I hereby certify that the above described material applicable state law, have been fully and accurate for transportation according to applicable regulate. Address:	Is are non-hazardous tely described, classif tions.	wastes as defined by ied and packaged and Uuuuu Signature DOT#: Truck Number:	40 CFR Part 261 or d are in proper condi	Date Shipped

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10 × 0.				0221
Atlantic NON-HAZA	RDOUS WAS	TE MANIFEST		
ENERATOR			in-car	10100227
Generator Name: 11 Aline 1 - HAR BERINA A	KFIELD	US EPA ID#:	THE GHY	210022
Billing Address: MLANNIC WASTE STRUCTS	25 cmat	HUYDELD DR. A	the Caf	3322
Site Address: IC CANACIONARCK, PLOK LE	PANC, PR	mart 611 3	MOL	
County of Origin: CANNARI		Phone:	112 315 4	176
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Son Arpars	15	ICH 32GA	yds	30Y del
http://www.			-	
I hereby certify that the above described materials are applicable state law, have been fully and accurately d for transportation according to applicable regulations.	lescribed, classif	wastes as defined by fied and packaged and	40 CFR Part 261 or d are in proper condi	r any ition
Wallow Hinson	-	Way	term	Data Shinood
Generator Authorized Agent Name		Signature		Date Shipped
RANSPORTER		DOTA	995413 GA	
Transporter Name: 11451 SPARES		Truck Number:		· · ;
Address: House (11 13)	1-2-			4 JUNE 04
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY			NIS CONTRACTOR	
Site Name: Sonthick Link	a Frehm			
Address:	Cr 13			
ANNING CH	and the second			
I hereby acknowledge receipt of the above described	SMIT			
I hereby acknowledge receipt of the above described	SMIT			
I hereby acknowledge receipt of the above described Name of Authorized Agent	SMIT	Signature		Date Received

		and a stranger of surgers and surgers	General de la la	0212
Atlantic NON-HA	AZARDOUS WAS	TE MANIFEST		
Generator Name: 11 16 - 11 11 11 11 11 11 11	. 1			2/002273
Billing Address:	A ALCOLOGICAL		and all	
Site Address:		· · · · ·		
County of Origin:		Phone:		×
Description of Waste	Total Quantity		Unit of Measure	Container Type
San Lateral	Sant- A	ICHON, CH		True I
	1			
			17	
7.8	K			
Special Handling Instructions	THE REAL PROPERTY AND A DECIMAL PROPERTY AND			
I hereby certify that the above described material applicable state law, have been fully and accurat for transportation according to applicable regulat	tely described, classifi ions.	ed and packaged an	40 CFR Part 261 o d are in proper cond	ition
Generator Authorized Agent Name	14. 19	Signature	-	Date Shipped
Transporter Name:	and the second se	DOT#	11 412	
Address:		Truck Number	. 17	-
Trenton De		- Cana	1	
Name of Authorized Agent	1	Signature		Date Delivered
DISPOSAL FACILITY				
Site Name:	d i i			1
Address:				
I hereby acknowledge receipt of the above desc	ribed materials.			

				0211
Atlantic Waste Services GENERATOR	ZARDOUS WAS	TE MANIFEST		
Generator Name:	1 th	US EPA ID#:	- GAY	2/0022733
Site Address:	the state	Et 14	01	
County of Origin: Chan Channes	-radi	Phone:	482 - 8. 9	116
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
e / tap T and	and the	10000		Tient
	1.CH			
Special Handling Instructions		·	-	
e e ve renjevit ye	T is	e e har se a	1	and a star of the
I hereby certify that the above described materials applicable state law, have been fully and accurate for transportation according to applicable regulation	ely described, classi ons.	hed and packaged an	40 OFR Part 261 d are in proper con	or any dition
Generator Authorized Agent Name		Signature	tarea	Date Shipped
TRANSPORTER				
Transporter Name:	Lot a series		9954136	
Address:			124	
1)		Signature	r.	5 TUNE 08 Date Delivered
Name of Authorized Agent DISPOSAL FACILITY				
Site Name:				
Address: Sevening of the				
I hereby acknowledge receipt of the above descri				
				14 - 2
Name of Authorized Agent	VIII-40	Signature	(r	Date Received

				0210
Atlantic NON	-HAZARDOUS WAS	TE MANIFEST		
ENERATOR				
Generator Name:		US EPA ID#:	- GA	42/0022
Billing Address:	and the proven	1 Con Brank	3 (1 <del>6 6</del>	
Site Address:	And the film	1 3 1		
County of Origin:		Phone:	and the true	6
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
1. Jun Maria		AL ST AL		1 = 1
Special Handling Instructions	d	-4		
I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu	erials are non-hazardous urately described, classif ulations.	wastes as defined by red and packaged and	d are in proper cond	Intion
I hereby certify that the above described mate	erials are non-hazardous urately described, classif ulations.	wastes as defined by red and packaged and	d are in proper cond	Intion
I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu- Mayna Matsan Generator Authorized Agent Name	erials are non-hazardous urately described, classif ulations.	wastes as defined by red and packaged and	d are in proper cond	Intion
I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu- Mayne Market Generator Authorized Agent Name	erials are non-hazardous urately described, classif ulations.	wastes as defined by ied and packaged and <u>Mayne</u> Signature	d are in proper cond	6-9.08 Date Shipped
I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu- Mayna Matsan Generator Authorized Agent Name	erials are non-hazardous urately described, classif ulations.	wastes as defined by led and packaged and <u>Utherson</u> Signature	Han-	Date Shipped
I hereby certify that the above described materiapplicable state law, have been fully and accurding to applicable regulation according to applicable regulat	erials are non-hazardous urately described, classif ulations.	wastes as defined by led and packaged and <u>Utherson</u> Signature	Homes	Date Shipped
I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu- Mama Mama Mama Generator Authorized Agent Name Transporter Name:	erials are non-hazardous urately described, classif ulations.	wastes as defined by ied and packaged and <u>Udayson</u> Signature DOT#	Homes	<i>6-4.08</i> Date Shipped
I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu- Mayna Magna Generator Authorized Agent Name TRANSPORTER Transporter Name:	erials are non-hazardous urately described, classif ulations.	wastes as defined by ied and packaged and <u>Udayson</u> Signature DOT#	Homes	Date Shipped
I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu- Mama Mama Mama Generator Authorized Agent Name TRANSPORTER Transporter Name:	erials are non-hazardous urately described, classif ulations.	wastes as defined by ied and packaged and <u>Udayson</u> Signature DOT#	Homes	<i>6-4.08</i> Date Shipped
I hereby certify that the above described materiapplicable state law, have been fully and accurate for transportation according to applicable regularies.	erials are non-hazardous urately described, classif ulations.	wastes as defined by ied and packaged and <u>Udayson</u> Signature DOT#	Homes	<i>6-4.08</i> Date Shipped

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Atlantic NON-HAZ	ARDOUS WAS	TE MANIFEST		
ENERATOR	*			
Generator Name: 11 there Hunter Herry	AIRFIELD	US EPA ID#	the GAY	210022733
Billing Address: Mark mic whole a Marces		C MUNICOU DR.	Receik GH	31322
Site Address: IT IT HAT ARTHUR CR. B. DG				
	ALL CALL		912 315 42	2.10
County of Origin: CHARMANT				
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SCILLDEPALS	14	10132.64	Y	
				-
· · ·		1		
Special Handling Instructions				
		+		
			-	
I hereby certify that the above described materials a applicable state law, have been fully and accurately for transportation according to applicable regulation Mayne Hints.	described, classi is.	wastes as defined by fied and packaged and solved and s	d are in proper cond	r any ition
Generator Authorized Agent Name		Signature		Date Shipped
Transporter Name: Michael White US & Mic Menue Address: Tocher Ch 243	March -		t	21/2
		Signature		Date Delivered
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY				
Site Name: Screkich LAN				
Address: Buch Little Lice				
I hereby acknowledge receipt of the above describ				
				1.1
Name of Authorized Agent	VIII-42	Signature		Date Received

*

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Atlantic

## NON-HAZARDOUS WASTE MANIFEST

0229

ENERATOR			
Generator Name:	US EPA ID#	GAY.	21002273
Billing Address: Manacowics Devices 1250 Ha		an 6A 31	322
Site Address: 100 MACARINER CR. Parte 612		ZMOI	
County of Origin:		SP. 25 42	2.6
	ATTALY CP		
Description of Waste Total Quanti	ty Profile Number	Unit of Measure	Container Type
induces 15	ICH32 CA	yds	30401 Matal
and produced			
		1.000	
		1	
Special Handling Instructions			
			e e ye is eres
		No.	
I hereby certify that the above described materials are non-hazard applicable state law, have been fully and accurately described, cla	ious wastes as defined by assified and packaged and	40 CFR Part 261 or d are in proper condi	r any ition
for transportation according to applicable regulations.	, 1	,1.	/
Wound Hinson	turs	1 de mant	6-1-08
Generator Authorized Agent Name	Signature		Date Shipped
RANSPORTER			
Transporter Name: Manage Martin a Roaces	DOT#	an un	
ROBANE MENTANDE.	DOIM	H I I I I I	1. +
Address: Kour GN 15224	-	17	
	- Truck Number:		
Name of Authorized Agent	-		Date Delivered
Name of Authorized Agent	- Truck Number:		Date Delivered
ISPOSAL FACILITY	- Truck Number:		Date Delivered
Site Name: Supplied Universe Site Name: Supplied Universe	- Truck Number:		Date Delivered
Address:	- Truck Number:		Date Delivered
Site Name: Supplie Compare Compare	- Truck Number:		Date Delivered
Address:	- Truck Number:		Date Delivered

a second a second s	all all the second of the second	Sharballanan Sarahanan	C. Michaeles the data and a second reason	and the sector where
- e · · ·	K1			0215
				W Lee also W
Atlantic NON-	HAZARDOUS WAS	TE MANIFEST		
vaste services				
ENERATOR	A		1- 01	12104207
Generator Name: 11 19 19 19 19 19				
Billing Address:	US, DEBRIE	Hervine 14	Parent Ct	1.12
Site Address:	ROS LASS. A	Arg Harrison	-13-1	12
County of Origin:		Phone	112 315 11	116
		Series 6	6 a. 14 - 54	
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
and for the states	1-	1.11 . 641		
N ²				
Special Handling Instructions	:			
and the second sec	++	and grand	112 × 1 × 1 × 1217	an an in the second
				1
I hereby certify that the above described mate	riale are non hazardous	wastes as defined h	v 40 CER Part 261 or	any
applicable state law, have been fully and accu	rately described, classifi	ied and packaged ar	d are in proper condi	tion
for transportation according to applicable regu	lations.	1.1 11	- ,	1 11.0
Generator Authorized Agent Name		Signature		Date Shipped
Generator Authorized Agent Name		olgitatio		
RANSPORTER				
F Transporter Name:	1. alexica's	DOT	995413 G	9
Address:	actor fre	Truck Numbe	. 104	
DAUID BRIGGS TR	1.55		3.1	5 JUNE 08
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY				
Site Name:				
Address of the set of the	Marca UD			
Address:	THE REAL P. D.			
	THE REAL P. D.			
Address: I hereby acknowledge receipt of the above de	escribed materials.	Signature		Date Received
Address:	THE REAL P. D.	Signature		Date Received

tlantic ste services	NON-HAZARDOUS WAS	TE MANIFEST		
Senerator Name:	K INTY MANDE	US EPA ID#:	+ GA	4210022
Billing Address: Manage and	abourts, 125 B Have	MENDOUS DA	. Kane	611 31322
Site Address: <u>AC to MAC MERINA</u>	CR. BLDG 615	HANNAN ,	6A 3140	1
County of Origin:		Phone:	The State	16
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SOL /OFBRIS	15	101132 GA	YU C	Be You Internal
and free free				
Special Handling Instructions		(	. ~ .	
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable	materials are non-hazardous l accurately described, classifi e regulations.	wastes as defined by	40 CFR Part 261 or	r any ition
I hereby certify that the above described applicable state law, have been fully and	materials are non-hazardous l accurately described, classifi e regulations.	wastes as defined by	40 CFR Part 261 or	r any ition Date Shipped
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Magnet Magnet Name	materials are non-hazardous accurately described, classifi regulations.	wastes as defined by ed and packaged and Signature	40 CFR Part 261 or	ition Date Shipped
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Magna Ham Generator Authorized Agent Name	materials are non-hazardous accurately described, classifi regulations.	wastes as defined by ed and packaged and Signature DOT#:	40 CFR Part 261 or d are in proper condi	ition Date Shipped
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Generator Authorized Agent Name CNSPORTER Transporter Name: Address:	materials are non-hazardous accurately described, classifi regulations.	wastes as defined by ed and packaged and Signature DOT#:	40 CFR Part 261 or are in proper condi	ition Date Shipped
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Generator Authorized Agent Name NSPORTER Transporter Name: Address: Name of Authorized Agent Name of Authorized Agent POSAL FACILITY Site Name:	materials are non-hazardous accurately described, classifi e regulations.	wastes as defined by ed and packaged and Signature DOT#: Truck Number:	40 CFR Part 261 or are in proper condi	ition Date Shipped
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Manual Authorized Agent Name Address: Name of Authorized Agent Name of Authorized Agent POSAL FACILITY Site Name:	Materials are non-hazardous accurately described, classifi e regulations.	wastes as defined by ed and packaged and Signature DOT#: Truck Number:	40 CFR Part 261 or are in proper condi	ition Date Shipped
I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Generator Authorized Agent Name AMSPORTER Transporter Name: Address: Mame of Authorized Agent Name of Authorized Agent Site Name:	Materials are non-hazardous accurately described, classifi e regulations.	wastes as defined by ed and packaged and Signature DOT#: Truck Number:	40 CFR Part 261 or are in proper condi	ition Date Shipped

	angeren and and and and and and and and and an	A new construction	al have a set of the s	CANAGE STREET, STREET, STREET, STREET, ST. CO.
				0189
Atlantic NON-HA	AZARDOUS WAS	TE MANIFEST		
Generator Name: US ARALY - HUMITER	HANNY HIRFI	US EPA ID#:	HE GAY	21002273
Billing Address: Manual Marte Sociales				
				144
Site Address: ICC MINCANCINIC CR. CLI	SCALLY MAL			21
County of Origin: CHATTAN	( mar a s		112, 315 42	2.60
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Same Marshare	12	10113264	Vet.	30 V/C
2014 11 12822	1-	IS ILZS OF		IT (MATE
i i i i i i i i i i i i i i i i i i i				
Special Handling Instructions				
and the second definition of the second s	4 4 - 94	14 - 1 - 1	e	A service prosecute
I hereby certify that the above described materials	s are non-hazardous	wastes as defined by	40 CER Part 261 or	any
applicable state law, have been fully and accurate for transportation according to applicable regulation	ely described, classif	ied and packaged and	are in proper condi	tion
Wayne Hinson	013.	Us.	11:	5 JUNE 08
Generator Authorized Agent Name		Signature	1 when all the manufactures	Date Shipped
TRANSPORTER				
	CUNICES	DOT#:	9954136	A
Transporter Name: MUMATIC WALLE		Truck Number:		
DAVID BRIGGS	52	D. B	*	S TLAK DB
Name of Authorized Agent		Signature	7	Date Delivered
DISPOSAL FACILITY				
Site Name: Donckrow Land				
Address: SAWALIMPAL				
I hereby acknowledge receipt of the above descri				
- All All All All All				110
Name of Authorized Agent	VIII-46	Signature		Date Received

Billing Address:	0227			
Billing Address:       Image: Maske in KNCKS, 120 KAR, MARGENE Kerner, Site Address:         Site Address:       IC MARKENE (R. 148-04)       MARKENE (R. 148-04)         County of Origin:       Image: Markene (R. 148-04)       MARKENE (R. 148-04)         Description of Waste       Total Quantity       Profile Number       Unit of         Image: Markene (R. 148-04)       Image: Markene (R. 148-04)       Phone:       Image: Markene (R. 148-04)         Special Handling Instructions       Image: Markene (R. 148-04)       Image: Markene (R. 148-04)       Image: Markene (R. 148-04)         I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR applicable state law, have been fully and accurately described, classified and packaged and are in p for transportation according to applicable regulations.       Image: Markene (R. 148-04)         Generator Authorized Agent Name       Signature)       Signature)         Transporter Name:       Image: Markene (R. 148-04)       Image: Markene (R. 148-04)         Name of Authorized Agent       Dot #:		TE MANIFEST	N-HAZARDOUS WAS	asto sol live
Billing Address:       In A MARK WARK WARK WARK WARK WARK WARK         Site Address:       I Control Origin:         Description of Waste       Total Quantity         Description of Waste       Total Quantity         Description of Waste       Total Quantity         Profile Number       Unit of         Special Handling Instructions       If Signature         Special Handling Instructions       Signature         Transportation according to applicable regulations.       Signature         Transporter Name:       Dot Waste         Transporter Name:       Dot Waste         Transporter Name:       Dot Waste         Transporter Name:       Dot Waste         Disposal FACILITY       Signature         Signature       Signature         Disposal FACILITY       Site Name:         Site Name:       Site Name:         Address:       Ward Mark Mark Mark Mark Mark Mark Mark Mark	GA421002273	US EPA ID#:	man Harrices	Generator Name () Con to the sale &
Site Address:       14 Hither CR Have Up, Addition CR 34 C         County of Origin:       14 Hither CR 14 Hither         Description of Waste       Total Quantity         Profile Number       Unit of         Address:       13 Hitle Iol 324A         Special Handling Instructions       14 Hitle Iol 324A         I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR applicable state law, have been fully and accurately described, classified and packaged and are in p for transportation according to applicable regulations.         Market Handling       Signature         RANSPORTER       DOT#:         Transporter Name:       DoT#:         Address:       Truck Number:         Name of Authorized Agent       Signature         Address:       Signature				
County of Origin:				
Description of Waste       Total Quantity       Profile Number       Unit of         Image: Special Handling Instructions       Image: Special Handling Instructions       Image: Special Handling Instructions         I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR applicable state law, have been fully and accurately described, classified and packaged and are in p for transportation according to applicable regulations.       Image: Signature         Generator Authorized Agent Name       Signature       Signature         XANSPORTER       Image: Signature       Signature         Image: I			These way at	
Description of Waste     Total Quantity     Profile Number     Unit of       Image: Special Handling Instructions     Image: Special Handling Instructions     Image: Special Handling Instructions     Image: Special Handling Instructions       I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR applicable state law, have been fully and accurately described, classified and packaged and are in p for transportation according to applicable regulations.     Image: Special Handling Instructions       Cenerator Authorized Agent Name     Signature     Signature       RANSPORTER     Image: Special Handling Instructions     Image: Signature       Transporter Name: Special Handling Instructions     Image: Signature     Image: Signature       RANSPORTER     Image: Signature     Image: Signature       Truck Number: Image: Signature     Signature     Image: Signature       ISPOSAL FACILITY     Site Name: Image: Signature Image: Signature     Signature       Address: Image: Image: Signature Image: Signa				County of Origin:
	Measure Container Type		Total Quantity	Description of Waste
	20 Mis Martial	HELC- 10113264	W. K	S. J. Manuar
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR applicable state law, have been fully and accurately described, classified and packaged and are in p for transportation according to applicable regulations.  Generator Authorized Agent Name  Signature  DOT#:		INTER INTERIOR		Sile/ UTAL2
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR applicable state law, have been fully and accurately described, classified and packaged and are in p for transportation according to applicable regulations.  Generator Authorized Agent Name  Signature  DOT#:				
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR applicable state law, have been fully and accurately described, classified and packaged and are in p for transportation according to applicable regulations.  Generator Authorized Agent Name  Signature  DOT#:				
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR applicable state law, have been fully and accurately described, classified and packaged and are in p for transportation according to applicable regulations.  Generator Authorized Agent Name  Signature  RANSPORTER  Transporter Name:				
for transportation according to applicable regulations.	Part 261 or any roper condition	s wastes as defined by 40 fied and packaged and ar	aterials are non-hazardous	I hereby certify that the above described mate
Generator Authonized Agent Name     Signature       TRANSPORTER     DOT#: /			gulations.	for transportation according to applicable reg
Generator Address:       DOT#: //       DOT#: //       Address:     Your Colspan="2">OT#: //       Truck Number:     //       Journal     Duran       Name of Authorized Agent     Signature       Signature       Disposal Facility       Site Name:     Duran       Journal     Duran       Journal     Signature	Date Shipped	L hun the	1	
Transporter Name:       Address:       DOT#:	Date Shipped	Signature		Generator Authorized Agent Name
Site Name: DENCRICK LANDFILL 3001 LITILE ILCK KO Address: SAVARIAN, (1) 1711	Date Delivered	Truck Number:	When when	Transporter Name: ALANTIK OR 125 D PINC MI Address: WOLLE EN TOWNTH DUNC
Address: Savaphilin, (1) 4717		1		DISPOSAL FACILITY
	· - 1 - 2		m, al and	Site Name: DHLKACH 3001 LITTL Address: SAMPHILI
Name of Authorized Agent VIII-47 Signature	Date Received	Signature	VIII 47	Name of Authorized Agent

MAZARDOUS WAS	US EPA ID#	POUCE GA	
5.125 B ANE	), IMMANNALL,	POUCE GA	
5.125 B ANE	), IMMANNALL,	POUCE GA	
, PLDG-615,		A man	
	Dhores		
	Phone:	112 312 42	26
Total Quantity		Unit of Measure	Container Type
15	151132 GA	V12	Storal .
ately described, classifiations.	wastes as defined by ed and packaged and	40 CFR Part 261 or are in proper condi	any tion
123	Signature	12 March	Date Shipped
a toxes	DOT#:		
LINKES LINE DE ZEDO			
11.115 11.00 DC 319777			
11.115 11.00 DC 319777	Truck Number:		
ANDENLE	Truck Number:		
ANDERLE NECE NO.	Truck Number:		
ANDENLE	Truck Number:		
	ials are non-hazardous rately described, classifi	Total Quantity       Profile Number         15       15         15       15         10       10         13       10         14       10         15       10         16       10         17       10         18       are non-hazardous wastes as defined by rately described, classified and packaged and rations.	Total Quantity     Profile Number     Unit of Measure       15     IIIBAGA     VIII       16     IIIBAGA     VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

	2. March 2. Control 2.	1999-9-1992 (Section of Section 1997)		0481
Atlantic NON-HA	ZARDOUS WA	STE MANIFEST		
Generator Name: US Awing - Horman Arany	MRFIELD	US EPA ID#	THE GAS	12100727
Billing Address: ATEMPARE WASTE SPRACES,	125 BYNE H	HONGOLD DR. TR	cur 61	1322
Site Address: 100 Michicompic Cic 15	LOX= 1015 5	AVANTARYA Y	3A 31409	
County of Origin: CHAINDINI		Phone:	912 319 47	126
Description of Waste	Total Quantity	Profile Number	54 - 01 Unit of Measure	Container Type
TH. DEP.RIS	E	101132 GA	y15 -	Barry I
				1
Special Handling Instructions		447 S.A. 200 (340 S	n kommune	annan an ann an ann an an ann an an ann an a
I hereby certify that the above described materials applicable state law, have been fully and accurate for transportation according to applicable regulation	ly described, class	s wastes as defined by ified and packaged an	40 CFR Part 261 of d are in proper cond	r any ition
Generator Authorized Agent Name		Signature		Date Shipped
TRANSPORTER				-
Transporter Name:	2120.00	DOT#	99511136	a
Address: nauen Gel 13	- 1,8	Truck Number	101	
Trimesf. Edwards		Carsen	Chint	
Name of Authorized Agent		Signature	CONV. 2.1	Date Delivered
DISPOSAL FACILITY				
Site Name: SOPERIOR UNIT 3001 LITTLE HE Address: SAVANNAN, 6A I hereby acknowledge receipt of the above describ	31419			
Name of Authorized Agent	VIII-49	Signature		Date Received

				0195
tlantic N	ON-HAZARDOUS WAS	TE MANIFEST		
NERATOR				
Generator Name: Horkery - Harrick A	EMULARENZD	US EPA ID#:	-+GAS	210022
Billing Address:				
Site Address: 106 March Mark C				
County of Origin:			912 310 - 42	26
		Amer + ÓBOT	054 01	
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Jan / LEBRIS	15	101132 CA	yds	Buyel
Special Handling Instructions			1	1 2 1
Liberaby cartify that the above described r	naterials are non-hazardous	wastes as defined by	40 CFR Part 261 or	h h h h h h h h h h h h h h h h h h h
	naterials are non-hazardous accurately described, classi	wastes as defined by	40 CFR Part 261 or	r any ition
I hereby certify that the above described r applicable state law, have been fully and for transportation according to applicable Wayne Huw	naterials are non-hazardous accurately described, classi	wastes as defined by fied and packaged an Way	40 CFR Part 261 or d are in proper condi	r any ition 6-14-08 Date Shipped
I hereby certify that the above described r applicable state law, have been fully and for transportation according to applicable	naterials are non-hazardous accurately described, classif regulations.	wastes as defined by	40 CFR Part 261 or d are in proper condi	6-14-08
I hereby certify that the above described rapplicable state law, have been fully and a for transportation according to applicable Wayne Hum Generator Authorized Agent Name	naterials are non-hazardous accurately described, classif regulations.	wastes as defined by fied and packaged an <u>Way</u> Signature	40 CFR Part 281 or d are in proper condi	G-14-08 Date Shipped
I hereby certify that the above described r applicable state law, have been fully and a for transportation according to applicable Wayne Generator Authorized Agent Name RANSPORTER	naterials are non-hazardous accurately described, classif regulations.	wastes as defined by fied and packaged an <u>Way</u> Signature	40 CFR Part 261 or d are in proper condi	G-14-08 Date Shipped
I hereby certify that the above described r applicable state law, have been fully and for transportation according to applicable Wayne Generator Authorized Agent Name RANSPORTER	materials are non-hazardous accurately described, classif regulations.	wastes as defined by ied and packaged an <u>May</u> Signature	40 CFR Part 281 or d are in proper condi	G-14-08 Date Shipped
I hereby certify that the above described r applicable state law, have been fully and a for transportation according to applicable Wayne Generator Authorized Agent Name RANSPORTER Transporter Name:	materials are non-hazardous accurately described, classif regulations.	wastes as defined by ied and packaged an <u>May</u> Signature	40 CFR Part 281 or d are in proper condi	G-14-08 Date Shipped
I hereby certify that the above described of applicable state law, have been fully and for transportation according to applicable Wayne How Generator Authorized Agent Name Cenerator Authorized Agent Name RANSPORTER Transporter Name: Address:	materials are non-hazardous accurately described, classif regulations.	wastes as defined by fied and packaged an <u>UMA444</u> Signature DOT#	40 CFR Part 281 or d are in proper condi	Date Shipped
I hereby certify that the above described in applicable state law, have been fully and a for transportation according to applicable Wayne Human Generator Authorized Agent Name RANSPORTER Transporter Name:	Materials are non-hazardous accurately described, classif regulations.	wastes as defined by fied and packaged an <u>UMA444</u> Signature DOT#	40 CFR Part 281 or d are in proper condi	Date Shipped
I hereby certify that the above described in applicable state law, have been fully and a for transportation according to applicable Wayne Generator Authorized Agent Name Cansporter Authorized Agent Name Address:	AME ANICES	wastes as defined by fied and packaged an <u>UMA444</u> Signature DOT#	40 CFR Part 281 or d are in proper condi	Date Shipped
I hereby certify that the above described in applicable state law, have been fully and a for transportation according to applicable Wayne Human Generator Authorized Agent Name RANSPORTER Transporter Name:	AME ANICES	wastes as defined by fied and packaged an <u>UMA444</u> Signature DOT#	40 CFR Part 281 or d are in proper condi	Date Shipped

				0194
Atlantic NON-HAZA	ARDOUS WAS	TE MANIFEST		
ENERATOR				
Generator Name: 11 Avenue - Manter Aren A	NIKFILLA	US EPA ID#:	HA GAY	2100227.
Billing Address: An partic WASTE Services I	25B Pire M	MONS IR. PC	CLOR , GA 313	322-00-0
Site Address: 1010 MACALANNA, CR., DUDE	615 SAVA	WHANH 61 3140	9	
County of Origin: (1971) 1971	40	Phone:	912 31547.26	
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
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	12-5-		1	
Special Handling Instructions			3	hin to share a
L berefy certify that the above described materials an	re non-hazardous	wastes as defined by	40 CFR Part 261 or	any
	re non-hazardous described, classif	wastes as defined by	40 CFR Part 261 or d are in proper condi	tion
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Atlantic NON-HA	ZARDOUS WAS	TE MANIFEST		
Generator Name: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Kanto	US EPA ID#:	Ht GA	121002273
Billing Address:		Mar In Pre	un it i	224
Site Address: ILL MA STATE STATE	top and	and the day	4	
County of Origin:		Phone:	H. J. T.	4
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
	15	ENGLER.	yds	30491
in the second se				7-4 -
I hereby certify that the above described materials applicable state law, have been fully and accurate for transportation according to applicable regulation	are non-hazardous ly described, classif	wastes as defined by ied and packaged and	40 CFR Part 261 or	any tion
Generator Authorized Agent Name		Signature	1 tim	Date Shipped
TRANSPORTER Transporter Name: Address:		Truck Number	1 1	-
Janes F. Edwards		Signature	In Third Day	0.508 Date Delivered
Name of Authorized Agent DISPOSAL FACILITY				
Site Name: Address: I hereby acknowledge receipt of the above describ	the second	17 -	7	
Name of Authorized Agent		Signature		Date Received
	VIII-52	200.000		

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	nersent Deringent Batter	and and the second second	4. ¹	0223
	- Jr -		(a) (	0220
Atlantic N	ION-HAZARDOUS WAS	TE MANIFEST		
GENERATOR				
Generator Name: 15 ARM - HUMAN	C ARMY AIRFIELD	US EPA ID#	THAGAS	21002273
Billing Address: Millernic withit	LKAUS, 1200	HAR HARKE	Dr. Pecalor	- cal 31322_
Site Address: 1000 MACALTINK		ANAMAN		
County of Origin: CHATTHAM		Phone:	912 315 42	26
			to and	
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
SCIL/UERS	15	101326A	15yds	30yd metal
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Special Handling Instructions				
Special Handling Instructions				
and the second second second	and the second	1 1 1 1 1	1. 5. 40.4	-
		waster as defined by	AD CEP Part 261 or	
I hereby certify that the above described applicable state law, have been fully and	accurately described, classif	ied and packaged an	d are in proper condi	tion
for transportation according to applicable	1	1.1 1	1-	
Generator Authorized Agent Name	insur	Signature	ferr	Date Shipped
TRANSPORTER				
Transporter Name:	LUCAL ALVELS	DOT#	1 113	<u>Citt</u>
Address: Address	PLANE ANDA	Truck Number	17	
- Januaria Fa		la	12.~	to - A
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY	-			
Site Name: Screktor	ie have the			
Address	in the Brang			
I hereby acknowledge receipt of the above	ve described materials.			
		1 -		Data Data data
Name of Authorized Agent	VIII-53	Signature		Date Received

				0190
NON-HA	ZARDOUS WAS	STE MANIFEST		
Billing Address: MILANNE LINSTE SCHOLES	CO PAL		HA GAY	1210022
Site Address: sele the sector for the				
County of Origin: Chranten			912 315 127	16
Description of Waste	Total Quantity	Profile Number		Container Type
KIL /DOBRIS	15	1511326A	WIT	JO Vela
			1.0	
Special Handling Instructions		<b> </b> =		1 - 20 - <b>1</b> - <u>1</u> - <u>1</u> - 1
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Atlantic NON-HA	ZARDOUS WAS	TE MANIFEST		
	( A min		14-01	12/002273
Generator Name: (15 Anni - 12 TICK NEM				
Billing Address: Manual Workse Second				522
Site Address: <u>I Cherphane mentane Cherry on</u>	- Letter, Service			
County of Origin: CHARTHANKI			912 35 42	1.26
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Sau Isama	15	ICH 32 GA	Yes	2045
SOIL DEBOIS		ich skon		1010-23-5
Special Handling Instructions				
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	are par harardaus	wastes as defined by	40 CEP Part 261 o	
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for transportation according to applicable regulation		Latan	11	
Generator Authorized Agent Name	21.3	Signature /	1 Stoth manage	Date Shipped
TRANSPORTER		DOT#		
Transporter Name: ANLAWAIC MAST	SIK			
Address: UCCUR, CA SI	0,2	Truck Number		-
Name of Authorized Agent		Signature		Date Delivered
DISPOSAL FACILITY				
Site Name: Sure Kick and	FILL			
Set unit the	- + +-3.0			
Address:				
pla A			1	510
Name of Authorized Agent	VIII-55	Signature		Date Received

tlantic NON-H	HAZARDOUS WAS	TE MANIFEST		
NERATOR				
Generator Name: US ALLAN - HUNDER AKAN	IL HINFILLD	US EPA ID#:	HA GA	4210022
Billing Address: ATLANTAC LOASTE STRUCC		mundow Tr.	HOOLER , GA 3	1322
Site Address: 100 mile and the Car Man				
County of Origin:			11236 12	71-
County of Origin		SAMINE # CE		AV.
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
ou loemas	1-	101132 6A		
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				0193
Atlantic NON-	HAZARDOUS WAS	TE MANIFEST		
Generator Name: <u>It Anne y - Hornes Pro</u>				1210022
Site Address: (Sto Proceedings CR. D.				
County of Origin:			11, 215 422	- 6
Description of Waste	Total Quantity	Sammer H Or	Unit of Measure	Container Type
ICIL/DEPARTS	15	101132 EA	V/S	Dern1
Special Handling Instructions				
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				0225
Atlantic NON	-HAZARDOUS WAS	TE MANIFEST		
Generator Name: ILANI - ILANER PAR	My AIFFIELD	US EPA ID#:	THE GAY	1210022;
Billing Address: MRAGAC MASTE SUE		HARVER LA.	RULL 6A	31:572
Site Address: ICC MACARINE CR				
County of Origin: CINATIAN			912 35 43	176
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
a las	TY - K	WIN TO CA	4.1 -	TO FIC
SHE LIGET DID	2407 1	11.11		COLUMN .
Special Handling Instructions		· •	a	
Special Handling Instructions I hereby certify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu	urately described, classif	wastes as defined by	40 CFR Part 261 o	r any lition
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# WATER DISPOSAL MANIFESTS

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1819 Albert Street Jacksonville, FL 32202 (904) 475-9320 Fax (904) 475-9449 www.wrijax.com

Mr. Rob Cooler Project Manager Moran Environmental Recovery 2600 Seaboard Coastline Drive Savannah, GA 31415

June 3, 2008

# RE: Petroleum Contact Water Acceptance

Dear Mr. Cooler,

We have reviewed the analytical data for the two storage tanks of petroleum contact water at Hunter Army Airfield in Savannah, Georgia. The water is from a remediation project for Old Pumphouse 2, where petroleum contaminated soil was removed along with groundwater (waste water) encountered. The two samples from SES, LLC were Sample from Baker Tank 2 (Lab number 0805094-02) acceptable for disposal at our facility.

It is our understanding that SES LLC is manying the waste water for the US Army, Hunter Army Airfield, and Moran Environmental Recovery will be transporting the water to us.

Per your request, this letter is to serve as inclumentation that Moran Environmental Recovery is approved for the disposal of petroleum contact water (PCW) at Water Recovery Inc. Your approval number for this material is W-0208. Please ensure that each manifest contains this approval number.

Please contact me directly if I can be of further assistance.

Sincerely,

Sugar & Kyndde ,

Gregory G. Reynolds Vice President and General Manager Water Recovery, Inc.

Waste Disvosal Made Safe and Simple

VIII-61



### CLIENT: SES, LLC

DATE RECEIVED: 05/08/08

EMPIRICAL LABORATO	RIES SAMPLE	NUMBER				0805094-01
CLIENT SAMPLE DESC	RIPTION/SAMF	LING DATE				Baker Tank 1 5/7/2008 3:30:00 PM
ANALYTES	USEPA METHOD	UNITS	MDL	REPORTING LIMITS	DILUTION FACTOR	CONC
Oil & Grease pH- Laboratory (1) Phenolics	1664A SM4500H ⁺ B 9065	mg/L Units mg/L	2.0 NA 0.010	5.0 NA 0.030	1 1 1	9.3 11.3 @ 25°C 0.048

See attached page for definitions of terms and qualifiers.

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VIII-62

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

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CLIENT SAMPLE NO.

		I	··
		BAKER ?	TANK 1
Lab Name: EMPIRICAL LABS Contract: SES		I	. <u></u> l
Lab Code: NA Case No.: NA SAS No	.: NA SDG N	0.: SES.	V05094
Matrix: (soil/water) WATER	Lab Sample ID	: 080509	4-01
Sample wt/vol: 5.000 (g/mL) ML	Lab File ID:	050940	1
Level: (low/med) LOW	Date Sampled:	05/07/	08 15:30
% Moisture: not dec.	Date Analyzed	l: 05/13/	08 15:58
GC Column: DB-VRX ID: 0.25 (mm)	Dilution Fact	or: 1.0	
Soil Extract Volume:(uL)	Soil Aliquot	Volume:	(uL)
CONCENTRA CAS NO. COMPOUND	TION UNITS: (u MDL F	g/L or u L	g/Kg) UG/L CONC (
67-64-1Acetone         71-43-2Benzene         75-27-4Bromodichloromethane         75-25-2Bromoform         74-83-9Bromomethane         78-93-32-Butanone         75-15-02-Butanone         75-15-02-Butanone         75-15-02-Butanone         75-15-02-Butanone         75-15-02-Butanone         75-15-02-Butanone         75-15-02-Butanone         75-15-02-Butanone         75-15-02-Butanone         75-00-32-Butanone         75-00-3Carbon disulfide         56-23Chlorobenzene         75-00-3Chlorobenzene         75-00-3	$\begin{array}{c} 1.1\\ 0.11\\ 0.086\\ 0.24\\ 0.33\\ 1.2\\ 0.13\\ 0.14\\ 0.28\\ 0.38\\ 0.10\\ 0.40\\ 0.18\\ 0.080\\ 0.28\\ 0.070\\ 0.17\\ 0.21\\ 0.12\\ 0.24\\ 0.15\\ 0.12\\ 0.24\\ 0.15\\ 0.15\\ 0.15\\ 0.15\\ 0.42\\ 0.44\\ 0.40\\ 0.18\\ 0.13\\ 0.22\\ 0.44\\ 0.40\\ 0.18\\ 0.034\\ 0.83\\ 0.034\\ 0.87\\ 0.26\\ 0.20\\ 0.17\\ 1.4\\ 0.22\\ 0.070\\ 0.14\\ \end{array}$	$ \begin{array}{c} 10\\ 1.0\\ 1.0\\ 1.0\\ 2.0\\ 1.0\\ 2.0\\ 1.0\\ 2.0\\ 1.0\\ 2.0\\ 1.0\\ 2.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1$	62 65 UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

FORM 1 VOLATILE ORGANICS ANALYSIS DATA S	CLIENT SAMPLE NO.
Lab Name: EMPIRICAL LABS Contract: SES	BAKER TANK 1
Lab Code: NA Case No.: NA SAS No.	.: NA SDG No.: SES.V05094
Matrix: (soil/water) WATER	Lab Sample ID: 0805094-01
Sample wt/vol: 5.000 (g/mL) ML	Lab File ID: 0509401
Level: (low/med) LOW	Date Sampled: 05/07/08 15:30
% Moisture: not dec.	Date Analyzed: 05/13/08 15:58
GC Column: DB-VRX ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CONCENTRA: CAS NO. COMPOUND	TION UNITS: (ug/L or ug/Kg) UG/L MDL RL CONC Q
108-88-3Toluene         120-82-11,2,4-Trichlorobenzene         71-55-61,1,1-Trichloroethane         79-00-51,1,2-Trichloroethane         79-01-6Trichloroethane         76-13-1Trichloroethane         75-69-4Trichloroethane         75-01-4Vinyl chloride         1330-20-7Xylene(total)	0.18       1.0       21         0.14       1.0       U         0.15       1.0       U         0.17       1.0       U         0.28       1.0       U         0.22       1.0       U         0.15       2.0       U         0.19       2.0       U         0.21       1.0       99

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FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DAT	CLIENT SAMPLE NO.
Lab Name: EMPIRICAL LABS Contract: SES	BAKER TANK 1
Lab Code: NA Case No.: NA SAS No	D.: NA SDG No.: SES.B05094
Matrix: (soil/water) WATER	Lab Sample ID: 0805094-01
	Lab File ID: 0509401
Sample wt/vol: 1060 (g/mL) ML	
% Moisture: decanted: (Y/N)	Date Sampled: 05/07/08 15:30
Extraction: (SepF/Cont/Sonc/Soxh) SEPF	
Concentrated Extract Volume: 500.0(uL)	Date Analyzed: 05/12/08 13:15
Injection Volume: 0.5(uL)	Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: NA	
CONCENTRA CAS NO COMPOLIND	ATION UNITS: (ug/L or ug/Kg) UG/L

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CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9 208-96-8 120-12-7 56-55-3 205-99-2 207-08-9 191-24-2 50-32-8 218-01-9 53-70-3 206-44-0 86-73-7 193-39-5	Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo (g, h, i) perylene Benzo (a) pyrene Chrysene Dibenz (a, h) anthracene Fluoranthene Fluorene Indeno (1, 2, 3-cd) pyrene	0.30 0.22 0.36 0.43 0.33 0.24 0.69 0.28 0.48 0.80 0.33 0.26 0.67	$\begin{array}{c} 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \\ 0.94 \end{array}$	14 4.5 5.4 8.2	Q U U U U U U U U
91-20-3 85-01-8 129-00-0	Phenanthrene	0.21 0.36 0.31			LL LL
120 00 0					

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FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

191-24-2----Benzo(g,h,i)perylene_

53-70-3-----Dibenz (a, h) anthracene

193-39-5----Indeno (1,2,3-cd) pyrene_ 91-20-3----Naphthalene_ 85-01-8-----Phenanthrene_

50-32-8----Benzo(a)pyrene

206-44-0----Fluoranthene

218-01-9----Chrysene

86-73-7----Fluorene

129-00-0----Pyrene

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CLIENT SAMPLE NO.

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3.6 JD

Lab Name: EMPIRICAL LABS Contract: SES	BAKER TANK 1DL
Lab Code: NA Case No.: NA SAS N	No.: NA SDG No.: SES.B05094
Matrix: (soil/water) WATER	Lab Sample ID: 0805094-01DL
Sample wt/vol: 1060 (g/mL) ML	Lab File ID: 0509401D
<pre>% Moisture: decanted: (Y/N)</pre>	Date Sampled: 05/07/08 15:30
Extraction: (SepF/Cont/Sonc/Soxh) SEPF	Date Extracted:05/12/08
Concentrated Extract Volume: 500.0(uL)	Date Analyzed: 05/12/08 17:17
Injection Volume: 0.5(uL)	Dilution Factor: 10.0
GPC Cleanup: (Y/N) N pH: NA	
CONCENTR CAS NO. COMPOUND	RATION UNITS: (ug/L or ug/Kg) UG/L MDL RL CONC Q
83-32-9Acenaphthene 208-96-8Acenaphthylene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene	3.0       9.4       19       D         2.2       9.4       UD         3.6       9.4       4.5       JD         4.3       9.4       UD         3.3       9.4       UD         2.4       9.4       UD



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# CLIENT: SES, LLC

DATE RECEIVED: 05/08/08 DATE REPORTED: 05/14/08

EMPIRICAL LABORATORIES SAMPLE NUMBER					0805094-02	
CLIENT SAMPLE DESC	RIPTION/SAMP	PLING DATE				Baker Tank 2 5/7/2008
	USEPA			REPORTING	DILUTION	3:40:00 PM
ANALYTES	METHOD	UNITS	MDL	LIMITS	FACTOR	CONC
Oil & Grease pH- Laboratory (1) Phenolics	1664A SM4500H [*] B 9065	mg/L Units mg/L	2.0 NA 0.010	5.0 NA 0.030	1 1 1	<2.0 8.3 @ 25°C <0.010

See attached page for definitions of terms and qualifiers.

EMPIRICAL LABORATORIES

D. Rick Davis Vice President FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

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CLIENT SAMPLE NO.

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Lab Name: EMPIRICAL LABS Contract: SES		BAKER T	ANK 2	
Lab Code: NA Case No.: NA SAS No.	: NA SDG NG	D.: SES.V	05094	
Matrix: (soil/water) WATER	Lab Sample ID	: 0805094	-02	
Sample wt/vol: 5.000 (g/mL) ML	Lab File ID:	0509402		
Level: (low/med) LOW	Date Sampled:	05/07/0	8 15:40	
% Moisture: not dec.	Date Analyzed	: 05/13/0	8 14:00	
GC Column: DB-VRX ID: 0.25 (mm)	Dilution Facto			
Soil Extract Volume:(uL)	Soil Aliquot	Volume:	(uL)	
CONCENTRAT CAS NO. COMPOUND	ION UNITS: (ug MDL R		/Kg)UG/L ONC Q	
67-64-1Acetone	$\begin{array}{c} 1.1\\ 0.11\\ 0.086\\ 0.24\\ 0.33\\ 1.2\\ 0.13\\ 0.14\\ 0.28\\ 0.38\\ 0.10\\ 0.40\\ 0.18\\ 0.38\\ 0.10\\ 0.40\\ 0.18\\ 0.28\\ 0.38\\ 0.10\\ 0.40\\ 0.18\\ 0.28\\ 0.070\\ 0.17\\ 0.21\\ 0.12\\ 0.24\\ 0.15\\ 0.15\\ 0.15\\ 0.15\\ 0.15\\ 0.42\\ 0.44\\ 0.18\\ 0.13\\ 0.22\\ 0.44\\ 0.40\\ 0.18\\ 0.13\\ 0.22\\ 0.14\\ 0.83\\ 0.034\\ 0.87\\ 0.26\\ 0.20\\ 0.17\\ 1.4\\ 0.22\\ 0.070\\ 0.14\\ \end{array}$	$ \begin{array}{c} 10\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ $	18 1.5 U U U U U U U U U U U U U	

FORM 1 VOLATILE ORGANICS ANALYSIS DATA S	CLIENT SAMPLE NO.
Lab Name: EMPIRICAL LABS Contract: SES	BAKER TANK 2
Lab Code: NA Case No.: NA SAS No.	: NA SDG No.: SES.V05094
Matrix: (soil/water) WATER	Lab Sample ID: 0805094-02
Sample wt/vol: 5.000 (g/mL) ML	Lab File ID: 0509402
Level: (low/med) LOW	Date Sampled: 05/07/08 15:40
% Moisture: not dec.	Date Analyzed: 05/13/08 14:00
GC Column: DB-VRX ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CONCENTRAT	TION UNITS: (ug/L or ug/Kg) UG/L MDL RL CONC Q
108-88-3Toluene120-82-11,2,4-Trichlorobenzene71-55-61,1,1-Trichloroethane79-00-51,1,2-Trichloroethane79-01-6Trichloroethene76-13-1Trichlorotrifluoroethane75-69-4Trichlorofluoromethane75-01-4Vinyl chloride1330-20-7Xylene(total)	0.18       1.0       U         0.14       1.0       U         0.15       1.0       U         0.17       1.0       U         0.28       1.0       U         0.22       1.0       U         0.15       2.0       U         0.19       2.0       U         0.21       1.0       U

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

205-99-2----Benzo(b) fluoranthene

207-08-9----Benzo(k)fluoranthene

207-08-9-----Benzo(k)fluoranthene_____ 191-24-2----Benzo(g,h,i)perylene_____ 50-32-8----Benzo(a)pyrene_____ 218-01-9----Chrysene_____ 53-70-3-----Dibenz(a,h)anthracene_____ 206-44-0-----Fluoranthene_____ 86-73-7-----Fluorene_____ 193-39-5-----Indeno(1,2,3-cd)pyrene___ 91-20-3-----Naphthalene_____ 85-01-8-----Phenanthrene

85-01-8----Phenanthrene

129-00-0----Pyrene

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CLIENT SAMPLE NO.

Lab Name: EMPIRICAL LABS Contract: SES	BAKER TANK 2
Lab Code: NA Case No.: NA SAS No	.: NA SDG No.: SES.B05094
Matrix: (soil/water) WATER	Lab Sample ID: 0805094-02
Sample wt/vol: 1080 (g/mL) ML	Lab File ID: 0509402
% Moisture: decanted: (Y/N)	Date Sampled: 05/07/08 15:40
Extraction: (SepF/Cont/Sonc/Soxh) SEPF	Date Extracted:05/12/08
Concentrated Extract Volume: 500.0(uL)	Date Analyzed: 05/12/08 13:42
Injection Volume: 0.5(uL)	Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: NA	
CONCENTRA CAS NO. COMPOUND	TION UNITS: (ug/L or ug/Kg) UG/L MDL RL CONC Q
83-32-9Acenaphthene 208-96-8Acenaphthylene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene	0.29         0.92         U           0.22         0.92         U           0.36         0.92         U           0.42         0.92         U           0.33         0.92         U

0.23

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	00 00 000	2. Page 1 of	3. Emerg	ency Response	Phone	4. Waste Tra	cking Numbe	<b>v- 00</b> 1	131	
5. Generator's Name and Ma	Iling Address	0022733		Generato	r's Site Address	(If different th	an mailing addres		<b>v-</b> 001		
U.S. Hunter Army 106 McArthur Cr. Savannah, GA 31. Generator's Phone:	409		1		•						
6. Transporter 1 Company Na Moran Environmen	•						U.S. EPA ID N				
7. Transporter 2 Company N	- *	· · · · · · · · · · · · · · · · · · ·				·	U.S. EPA ID N	92718575 iumber	<del></del>	···	
8. Désignated Facility Name Water Recovery In 1819 Albert Street Jacksonville, FL 3	· · ·		-	<u></u>		· ·	U.S. EPA ID N FLRO	lumber 00059052	·····	<u>.</u>	
Facility's Phone: 904-475	-9320		· `.	·	·			······			
9. Waste Shipping Na	inte and Description	·		.	10. Conta No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.		•	
	us Non Regulated	Petroleum Contact W			001						
Non Hazardo	ao mon negalatea	PEROLEM CONSCIAN	8161		001	Π	5,000	Gq			
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4			• •	÷						- 1	
PROFILE # W-02 JOB # SG1480 PO # 201688	Ctions and Additional Informat OB	lon		, ·			· ·				
14 GENERATOR'S CERT	FICATION: I certify the mater	als described above on this man	lfest are not sub]	ect to fede	ral regulations fo	or reporting p	oper disposal of I	lazardous Wa	ste.		
Generator's/Offeror's Printe	d/Typed Name			Signature Wa		tinso			Month	Day 141	Year OS
15: International Shipments	Import to U.S.		Export from		Port of	entry/exit;	· · · · · · · · · · · · · · · · · · ·	······		<u> </u>	
	gment of Receipt of Materials	······			Date lei	aving U.S.:	~				
BAVELL	(Hobine	2		Signature	L	I Su	In		Month	Day OCI	ð8
Transporter 2 Printed/Type	d Name			Signature					Month	Daÿ	Year
17. Discrepancy 17a. Discrepancy Indication					·	·····	· · · · · · · · · · · · · · · · · · ·	·			
Tra. Disciepancy mulcaud	Quantity	туре	1	ļ	Residue 🔒		Partial P	lejection		Full Reject	lion
17b. Alternate Facility (or C	Generator)	<u>.                                    </u>	·····	Ma	anifest Referenc	e Number:	U.S. EPA I	D Number		•	<u> </u>
TIJ	·	•					, I				
17b. Alternate Facility (or C Facility's Phone: 17c. Signature of Alternate	Facility (or Generator)	· · · · · · · · · · · · · · · · · · ·	· · · ·						Month	Day	Year
ESIGNA				State C							
18. Designated Facility Ov Printed/Typed Name	wier or Operator: Certification	of receipt of materials covered by	v the manifest ex VIII-7 ₁ 1	Signature	ted in item 17a	<u>.</u>			Mont/	Day	Year

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DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST GA420022733		ergency Response		4. Waste Tra	S	^{nber} AV- 001	431	1
. Generator's Name and Mailing Address U.S. Hunter Army Alifield 106 McArthur Cr. Savannah, GA: 31409 Senerator's Phone:	Genei	ator's Site Address	s (if different t	han mailing addres	ss) ⁻		· · ·	
Noran Environmental Recovery LLC	· · · ·	· ·		1.1.1	9271857	76		
Transporter 2 Company Name     Designated Eaclify Name and Site Address				U.S. EPA ID N				
3. Designated Facility Name and Site Address Water Recovery Inc. 1819 Albert Street Jacksonville, FL 32202		• .	• .		600590	52		
Facility's Phone: 904-475-9320 9. Waste Shipping Name and Description		10. Cont	ainers		12. Unit	<b>.</b>		
A STATE THE		Ńo.	Туре	Quantity	Wt./Vol.		·	
1. Non Hazardous Non Regulated Petroleum Contact Wi	ater	001	Π	5,000	Gal			
	· · · · · · · · · · · · · · · · · · ·							
	1							
4. Ini 13 Special Handling Instructions and Additional Information								
J0B#SG1480 P0#201689								
14. GENERATOR SCENTIFICATION: I centry life materials described above on talsman Generator's Officior's Printed Typed Name Wayna Hin Same	festiare not subject to A	deral regulations	for reporting p	proper disposal of I	Hazardous	Waste. Month	Day 4	Year 28
15. International Shipments Import to U.S.	Exponsition VIS.		entry/exit:	·				
Te Transporter Acknowledgment of Receipt of Materials. Antersporter 1 Printed Typed Name Drund L.Holmes	Signatu	$^{\circ}$	$\overline{\mathbf{C}}$	2H	0	Month 1061	Day	Yee 0
Třánsporter 2 Printed/Typed Name	Signatu		At			Month	Day	Yéa
17: Discrepancy 17a. Discrepancy Indication Space		Residue		Partial F	Rejection		uli Rejecti	ión
17b. Alternate Facility (or Generator)		Manifest Referen	ce Number:	U.S. EPA I	D Number		<u>. 4</u>	1
Facility's Phone:						. <u> </u>		
176. Signature of Alternate Facility (or Generator)	2	5 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1				Month	Day	Y
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by	C. C. M. Mr. A. S.				1. A.		ومستعملين ومراجع	

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DESIGNATED FACILITY TO GENERATOR •

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WASTE MANIFEST	Generator ID Number	0022733	2. Page 1 of	3. Emerge	ncy Response	e Phone	4. Waste Tr	acking Nur Si	nber AV- ()	014	32
Generator's Name and Mailing A	ddress			Generator	s Site Addres	s (if different t	han mailing addre				
U.S. Hunter Army Alme 105 McAnhur Cr.	id .				2			· ·			
Savannah, GA 31409 enerator's Phone:			1			· .		n n N K p		; ,	
Transporter 1 Company Name					•	÷	U.S. EPA ID I	Vumber			
Moran Environmental R	ecovery LLC			· · · · ·		· · · · · · · · · · · · · · · · · · ·		9271857	6	· · · · ·	
/Transporter 2 Company Name				· · · 			U.S. EPA ID	Number			
Designated Facility Name and Si	te Address					n.	U.S. EPA ID J	Number.	····		
1819 Albert Street				ter en			FLR0	0006905	2	· · ·	
Jacksonville, FL 32202 acility's Phone: 904-475-9320						-	are a second				
1 B	• · · · ·		ړې پېسې د د د د د . 		10. Cont	ainers	11. Total	40.11-12	<u></u>		
9. Waste Shipping Name and	d Description		· · ·	.  -	No.	Туре	Quantity	12. Unit Wt/Vol.			
^{1.} Non Hazandous Ne	on Regulated	Petroleum Contact W	'ater		001	TT		Gal			° 3
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S. Special Handling Instructions a	nd Additional Informat	lion		1_			<u> </u>				1. 1.1 ¹ 2 - Jun
PROFILE #W-0208			* . *						- <b>-</b>		
J08 # SG1480 PO # 201690	• • •		i èr			1			1	in De	12
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										01	<b>ب</b> ي :
H 376 50	INAS	3 011	16-	70	X V	<b>2</b> .2	EI ACI				
H 376 SO	LILS ON: I certify the mater	3 OIL iais describéd above on this mani	ifest are not subje	T 0 ct to federal		っっ r reporting pro		ažardous W	16ID		
4: GENERATOR'S CERTIFICATIOn enerator's/Offeror's Printed/Typed	ON: I certify the mater	3 OIL iáis describéd above on this mani		ct to federal i gnature			FLAS	azardous W	161D laste.	onth Day	Ye
4. GENERATOR'S CERTIFICATIOn interators/Offeror's Printed/Typed	ON: I certify the mater		Si 	gnature Wa			FLAS	azardous W	161D laste.	onth Day	
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4. GENERATOR'S CERTIFICATIO enerator's/Offeror's Printed/Typed 5. International Shipments ransporter Signature (for exports of 6. Transporter Acknowledgment of ransporter 1. Printed/Typed Name	ON: I certify the mater I Name I Import to U.S. only): I Receipt of Materials		Si	gnature U.S. gnature gnature	Port of e Date lea	r reporting pro	FLASI oper disposal of H	ažardous W	Aste. Mc	nth Day 04	
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A GENERATOR'S CERTIFICATION SCENTIFICATION SCENTIF	I Name         I Name         I I I I I I I I I I I I I I I I I I I		Si Export from Si Si	gnature gnature gnature	Port of e Date lea	r reporting pro	ELASI pper disposal of H	azardous;W	Aste. Mc	5 4/ inth Day 6 04 04 11	
i. GENERATOR'S CERTIFICATIO enerator's/Offeror's Printed/Typed Scinternational Shipments ransporter Signature (for exports of transporter Acknowledgment of ransporter 1 Printed/Typed Name	ON: I certify the mater I Name I Import to U.S. only): I Receipt of Materials		Si Export from Si Si	gnature U.S. gnature	Port of e Date lear	r reporting pro		azardous;W	Aste. Mc	nth Day 04	
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A GENERATOR'S CERTIFICATIOn in the second s	ON: I certify the mater I Name I Import to U.S. only): I Receipt of Materials		Si Export from Si Si	gnature U.S. gnature	Port of e Date lear	r reporting pro	per disposal of H	azardousiy	Aste. Mc	5 4/ inth Day 6 04 04 11	
GENERATOR'S CENTIFICATIOn      Senting of the sentiments of the sentents of the sentiments of the sentiments of the sentiments of the	ON: I certify the mater         I Name         I Mame         I Import to U.S.         Import to U.S.         f Receipt of Materials         Import to U.S.         Quantity         Import to U.S.         Quantity		Si Export from Si Si	gnature U.S. gnature	Port of e Date lear	r reporting pro	per disposal of H	azardousiy	Mc Mc Mc Mc Mc	a 4 inth Day 04 04 04 04 04 04 04 04 04 04	
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7. Transporter 2 Company N		<u> </u>	· · · · · ·				U.S. EPA ID I	9271857	<b>b</b>	<u> </u>		
8. Designated Facility Name Water Recovery 1	and Site Address			·····			U.S. EPA ID I	Number				
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Jacksonville, FL											•	
Facility's Phone: 904-47	5-9320				<b>r</b>							
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	signated Facility Own	er or Operator; Certification	of receipt of materia	als covered by the	manifest exce	ept as not	ed in Item 17a				Mon	th Day

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# **APPENDIX IX**

## SITE RANKING FORM

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## SITE RANKING FORM

Facility	/ Name:	Former Pum	phouse #2	a)	R	S. Stoller			
County	/: Cha	tham Facil	ity ID #: <u>9</u>	-025086		D	ate Ranked:	10/13/200	8
<u>SOIL C</u>		IINATION							
Α.	(Assum	AHs – um Concentratio ne <0.660 mg/kg pred on site)		B.	Total Maxir	on found on	the site		
	was sie						≤0.005 mg/kg	=	0
		≤0.660 mg/kg	=	0			>0.00505 mg	j/kg =	1
		>0.66 - 1 mg/k	(g =	10		* 🖂	>0.05 - 1 mg/kg	=	10
		>1 - 10 mg/kg	=	25			>1 - 10 mg/kg	=	25
*		>10 mg/kg firmatory Sample A	= MB211 (Feb	50 2003)			>10 - 50 mg/kg	=	40
C.		o Groundwater		2000)		2008 C	>50 mg/kg onfirmatory soil sampl	= ling	50
0.		elow land surfa							
		>50' bls	= 1						
		>25' - 50' bls	= 2						
	$\bowtie$	>10' - 25' bls	= 5						
		$\leq$ 10' bls	= 10						
Fill in t	he blan	ks: (A. <u>50</u>	<u>0    </u> ) + (B.	<u>    10    )</u> = (	60	_) x (C.	<u>5</u> ) = (D. <u>300</u>	))	
GROU	NDWAT	ER CONTAMIN	NATION						
E.	liquid h	roduct (Nonaqu ydrocarbons; S inition of "sheer	ee Guideli		F.	Maxir (One	olved Benzene - mum Concentratic well must be loca e release.)		
	$\boxtimes$	No free produc	ct = 0				≤5 µg/L		= 0
		Sheen - 1/8"	= 250				_o μg/L >5 - 100 μg/L		= 5
		>1/8" - 6"	= 500			* 🖂	>100 - 1,000 µg	n/l	= 50
		>6" - 1ft.	= 1,000	1			>1,000 - 10,000		= 500
		For every addi 100 points = <u>1</u>		, add another			>10,000 - 10,000 >10,000 µg/L /uly 2008 groundwater		= 1,500
Fill in t	he blan	ks: (E	<u>0    </u> ) + (F.	<u> </u>	!	<u>50    </u> )			

#### Facility Name: <a>Former Pumphouse #2 (tank pit area)</a>

Facility ID #: 9-025086

#### POTENTIAL RECEPTORS (MUST BE FIELD-VERIFIED)

Distance from nearest contaminant plume boundary to the nearest downgradient and hydraulically connected Point of Withdrawal for water supply. If the point of withdrawal is not hydraulically connected, evidence as outlined in the CAP-A guidance document MUST be presented to substantiate this claim.

Н.	Public	Water S	Supply				I.	Nor	ו-Pu	blic Wate	er Sup	oply	
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Q.	EXPLO	SION I	HAZARD	<u> </u>									
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## ADDITIONAL GEOLOGIC AND HYDROGEOLOGIC DATA

The following is presented to provide supplemental information to Item H of the Site Ranking Form and details relating to the geologic and hydrogeologic conditions at Hunter Army Airfield (HAAF), which support HAAF's determination that the water withdrawal points located at the airfield cannot be hydraulically connected to the surficial aquifer.

#### **1.0 REGIONAL GEOLOGY**

Southeast Georgia is located within the Coastal Plain physiographic province of the southeast United States (Clark and Zisa 1976). In this region, the thickness of the southeastward-dipping subsurface strata ranges from 0 ft at the Fall Line, located approximately 350 miles inland from the Atlantic coast, to approximately 4,200 ft below ground surface (BGS) at the coast. Herrick (1961) provides detailed lithologic descriptions of the stratigraphic units encountered during the installation of water and petroleum exploration wells in Chatham County. The well log of GGS Well 125, located on White Bluff Road, 700 ft west and 0.3 mile north of Buckhalter Road, Savannah, provides one of the more complete lithologic descriptions of upper Eocene, Miocene, and Pliocene to Recent sedimentary strata in Chatham County.

The upper Eocene (Ocala Limestone) section of GGS Well 125 is approximately 225 ft thick and dominated by light gray to white, fossiliferous limestone. The Miocene section is approximately 250 ft thick and consists of limestone, with a 160-ft-thick cap of dark green phosphatic clay. This clay is regionally extensive and is known to occupy the Coosawatchie Formation of the Hawthorn Group (Furlow 1969; Arora 1984; Huddlestun 1988). The interval from approximately 80 ft to the surface is Pliocene to Recent in age and composed primarily of sand interbedded with clay and silt. This section is occupied by the Satilla and Cypresshead Formations (Huddlestun 1988).

#### 2.0 LOCAL GEOLOGY

HAAF is located within the Barrier Island Sequence District of the Coastal Plain physiographic province of the southeast United States (Clark and Zisa 1976). The Barrier Island Sequence District in Chatham and Bryan Counties is characterized by the existence of several marine terraces (step-like topographic surfaces that decrease in elevation toward the coast). These marine terraces, and their associated deposits, are the result of sea level fluctuations that occurred during the Pleistocene epoch. The surficial (Quaternary) deposits in Chatham and Bryan Counties, in decreasing elevation and age, are part of the Okefenokee, Wicomico, Penholoway, Pamlico, and Silver Bluff terrace complexes (Wilkes et al. 1974; GA DNR 1976; Huddlestun 1988).

HAAF, as well as most of Chatham County, is underlain by the Pleistocene Pamlico terrace. The Pleistocene Satilla Formation (formerly known as the Pamlico Formation) consists of deposits of the Pamlico terrace complex and other terrace complexes in the region (Huddlestun 1988). The Satilla Formation is a lithologically heterogeneous unit that consists of variably bedded to non-bedded sand and variably bedded silty to sandy clay. During the Pleistocene epoch, these sand and clay deposits were formed in offshore and inner continental shelf, barrier island, and marsh/lagoonal-type environments (Huddlestun 1988). According to the *Geologic Map of Georgia* (GA DNR 1976), clay beds of marsh origin, which were deposited on the northwestern side of the former Pamlico barrier island complex, exist in the western quarter of HAAF. Very fine- to coarse-grained sand deposits of barrier island origin are more common throughout the remaining areas of HAAF.

Based on the coring and sampling of unconsolidated strata at HAAF during the Corrective Action Plan–Part A investigations, it was concluded that all former underground storage tanks (USTs) were buried within the Satilla Formation, which is overlain by various soil types. Soil groups at HAAF include the Chipley, Leon, Ellabelle, Kershaw, Pelham, Albany, Wahee, and Ogeechee (Wilkes et al. 1974).

#### 3.0 REGIONAL AND LOCAL HYDROGEOLOGY

The hydrogeology in the vicinity of HAAF is mostly influenced by two aquifer systems. These are referred to as the principal artesian (Floridan) aquifer and the surficial aquifer (Miller 1990). The principal artesian aquifer is the lowermost hydrologic unit and is regionally extensive from South Carolina through Georgia, Alabama, and most of Florida. Known elsewhere as the Floridan, this aquifer, approximately 800 ft in total thickness, is composed primarily of Tertiary-age limestone, including the Bug Island Formation, Ocala Group, and Suwannee Limestone. Groundwater from the Floridan is used primarily for drinking water (Arora 1984). According to Miller (1990), one of the largest cones of depression produced in the upper Floridan aquifer exists directly beneath Savannah, Georgia. Net water level decline in the Floridan system, between the predevelopment period and 1980, exceeded 80 ft beneath Savannah. In addition, according to 1980 estimates, more than 500 million gal of water per day were withdrawn from the Floridan for public and industrial use in southeast Georgia, more than any other region.

The confining layer for the Principal Artesian (Floridan) Aquifer is the phosphatic clay of the Hawthorn Group. There are minor occurrences of aquifer material within the Hawthorn Group; however, they have limited use (Miller 1990). The surficial aquifer overlies the Hawthorn confining unit.

The surficial aquifer consists of widely varying amounts of sand and clay, ranging from 55 to 150 ft in thickness, and is composed primarily of the Satilla and Cypresshead Formations in the Savannah vicinity (Arora 1984). This aquifer is primarily used for domestic lawn and agricultural irrigation. The top of the water table ranges from approximately 2 to 10 ft BGS (Miller 1990). Groundwater in the surficial aquifer system is under unconfined, or water table, conditions. However, locally, thin clay beds create confined or semiconfined conditions, as is the case at HAAF where thin, surficial clay beds are present in the western quadrant (GA DNR 1976).

Groundwater encountered at all of the UST investigation sites is part of the surficial aquifer system. Based on the fact that all public and non-public water supply wells draw water from the principal artesian (Floridan) aquifer and that the Hawthorn confining unit separates the principal artesian aquifer from the surficial aquifer, it is concluded that there is no hydraulic interconnection between the surficial aquifer (and associated groundwater plumes, if applicable) located beneath former UST sites and identified water supply withdrawal points at HAAF.

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